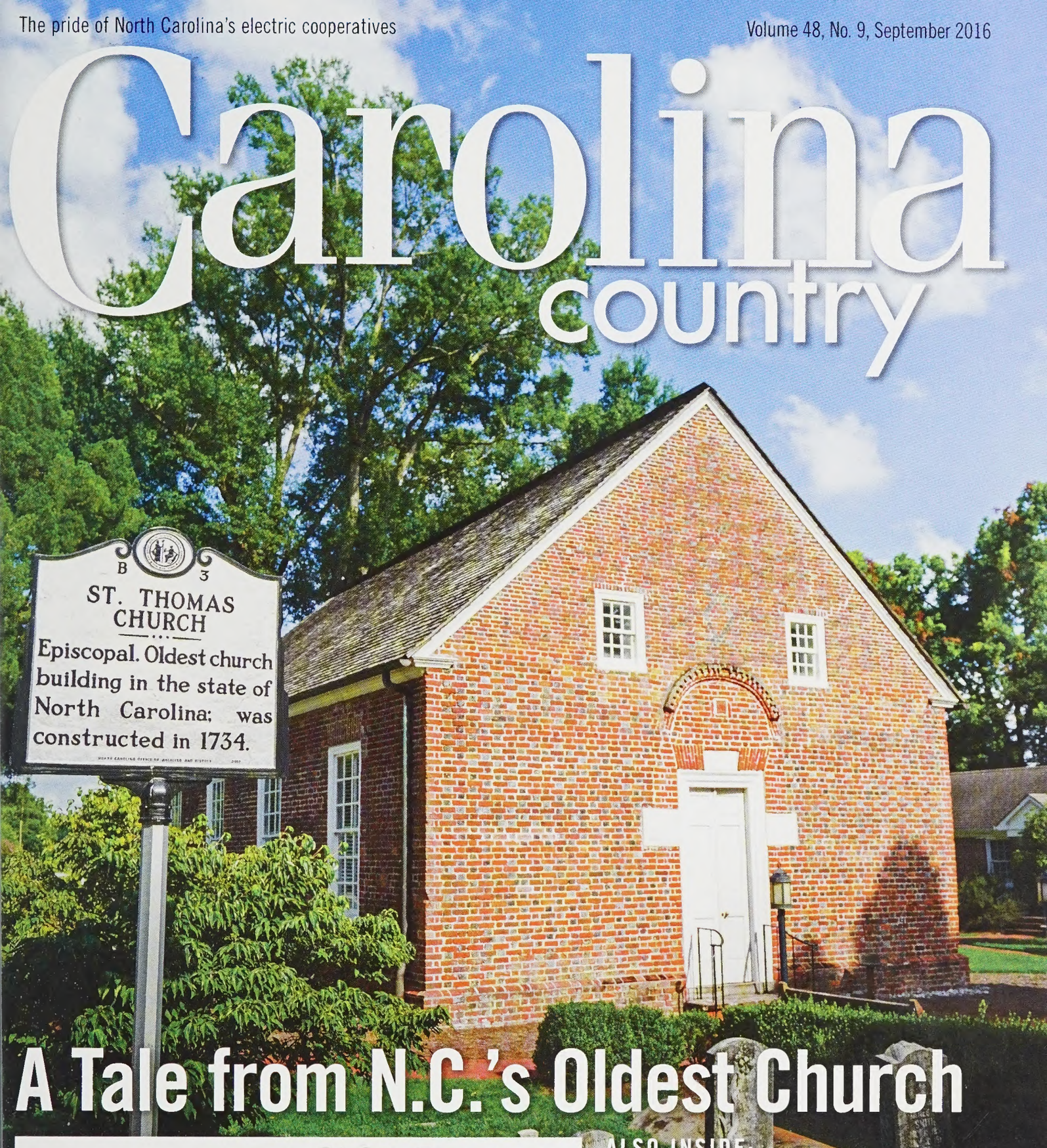
The pride of North Carolina's electric cooperatives

Volume 48, No. 9, September 2016

Carolina country



A Tale from N.C.'s Oldest Church

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King Solomon's Secret Treasure: FOUND

Ancient beauty trapped in mines for centuries is finally released and available to the public!

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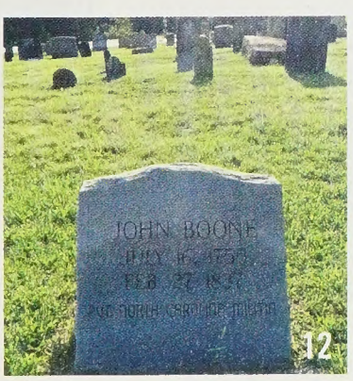
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St. Thomas Episcopal Church in Bath, the oldest church building in the state and the scene of our story on page 14. Photo by Magnolia Photography.





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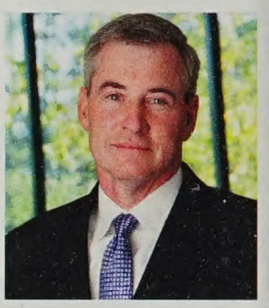
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New Technology Means Big Opportunities



By Joe Brannan

The energy industry is changing in some pretty big ways.

You may not have noticed it at all, or you may have seen it through small changes: Solar panels installed near your electric co-op; Wi-Fi-enable lightbulbs selling for $15 at the hardware store; new thermostats that let you control your air conditioner from out of town. All of these little things add up to a different way of doing business for electric utilities. And the good news is, it's all about you, the consumer.

Technology is a huge driver of change across many industries and products. But in the electric utility industry, technology-driven change at the consumer level is relatively new. Regulations have shaped and will continue to shape the future of our industry, but now technology is impacting how power is distributed and used. This creates opportunities on both sides of your electric meter.

First, the utility side. Technology is creating opportunities for electric utilities to do our jobs in ways we never considered before. That job—providing you with safe, reliable and affordable power—used to mean building power plants as needed and moving that power over long distances to your home. That system works well, but improved technology provides us with additional options, and I'm proud to say that North Carolina's electric cooperatives are leaders in this type of innovation.

In a remote stretch of the Outer Banks, transmission lines from the mainland are vulnerable to frequent squalls, and backup diesel power can be expensive. Tideland EMC is rethinking how it serves Ocracoke residents to reduce costs and improve system reliability. The electric co-op, in partnership with its cooperative supplier, NCEMC, is constructing a "microgrid" system on the island. Localized solar panels with Tesla battery storage will supplement diesel generation. Energy efficiency technology, including Ecobee smart thermostats, will help trim both demand and members' electric bills.

In the northwest part of the state, Surry-Yadkin EMC is establishing a similar "microgrid" at a vineyard utilizing solar panels and battery storage—an opportunity for the co-op to test the technology while providing the member with on-site renewable generation. Wake Electric is offering members a discounted rate to charge electric vehicles overnight, helping the co-op manage demand while creating savings for members. The list goes on.

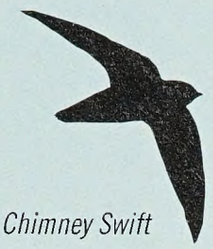
You can already see how technology is creating more opportunities on the consumer side of the electric meter. You now have more control over how you use electricity than ever before. Co-op smartphone apps provide you with detailed information on how your home uses power and convenient bill pay options. You will have more opportunities to access renewable energy as it continues to become more affordable. And there are a host of "smart" appliance options that allow you to control energy use from outside the home.

All of this technology creates big opportunities. And here's more good news: Electric cooperatives are in the best position to take advantage of it all. We've been providing power to our members in North Carolina since 1936, all the while under a member-focused business model.

Empowering member-consumers is nothing new to us; it's who we are. We're thankful to now find ourselves with more ways to do it.

Joe Brannan is CEO of the North Carolina Electric Membership Corp., the power supply cooperative based in Raleigh and owned by 25 of the state's electric cooperatives.

'Flying Stogies'



Chimney Swift

Just wanted to let you know I loved the article about the Brown-headed Nuthatch and the Chimney Swifts! ("Sheltering Our Feathered Friends," August 2016, pages 16 and 17.) I am a birder and have a few Chimney Swifts around my almost 100-year-old house. There is one external chimney that is left open for them (not used anymore).

However, the silhouette of the swift is not correct. They do not have a forked tail. The silhouette shown looks like a barn swallow. Chimney Swifts truly do look just like a 'flying cigar', actually like a big fat 'stogie'! Wanted to point that out for those that are not so into birds as I and others are. Love receiving my magazine each month!

Sue McMullen, Laurel Springs, a member of Blue Ridge Electric

Editor's Note: Thank you, Sue! The silhouette we ran was misleading and was more swallow-like (a distant cousin of the swift). If you're looking for Chimney Swifts overhead, watch for stubby, streamlined bodies with a blunt tail.

Jacob Brooks Fan Club

We have been getting your magazine for the past seven years now and I have had the pleasure of following Jacob Brooks on his journey in life, and was pleasantly surprised to see an update from him in the latest magazine. I almost missed it! I have enjoyed reading your magazine every month and really appreciate the "Remember when..." stories. I'm not from N.C., but I consider N.C. my home. I have grown up here (I was raised in WI). Thank you for all of your wonderful articles and pictures!

Liz James, Huntersville, a member of EnergyUnited

Memories to Share

I just received the August 2016 edition and was disappointed not to see "I Remember." I look forwarding to reading the short stories and make notes on stories that might prompt a warm memory for my 97-year, 7-month and 23-day-old daddy, Paul G. Lewis, who lives in Charleston, South Carolina. He is totally deaf, but loves to read cards and letters so I always include the "I Remember" pages when I write him.

Please tell me that you haven't discontinued this favorite.

P. Laree Lewis, Youngsville, a member of Wake Electric

Editor's Note: We've received a few calls and letters about this much-loved section. You will find "I Remember" on page 20 of this issue.

We are typically running the "I Remember" section every other issue (based on the number of entries we receive), with a "Where Life Takes Us" story from a reader on those off months. Keep those memories coming! Submission guidelines are on page 20.

Lessons in Shakespeare

Thanks for the photo of the first NC School of the Arts in Winston Salem ("Tar Heel Lessons," August 2016, pages 26 and 27). The building was originally James A. Gray Senior High School. My class of 1961 was probably the last to graduate before students were sent elsewhere.

The tall windows were important as there was no air conditioning. Miss Moselle Stephenson, who taught senior English in one of the front rooms, could stand at the window giving us non-stop Shakespeare as she looked out. We caught on quickly that she never looked at the text but had it all memorized.

Marianne Bell, St. James, a member of Brunswick EMC

Corrections to August Issue

- **Storm Watch** ***(page 10)*** | Tip number three should read "Lower water level in pool by 6 inches," not to 6 inches.
- **Carolina Country Adventures** ***(page 30)*** | The correct spelling of the Frisco Native American museum owners' last name is Carl and Joyce Bornfriend, not Bornfield.

Facebook Cover Girl

Anne Puetzer, a member of Wake Electric from Rolesville, shared a photo on Facebook of her daughter enjoying her new-found celebrity status.



Anne Puetzer
4 hrs Rolesville

She's so excited about making the cover of the magazine!!!




She should be... so cute!!!
Like · Reply · 2 · 4 hrs


Wow! She is so photogenic! The pic of her holding the magazine is ADORABLE!
Like · Reply · 3 · 3 hrs

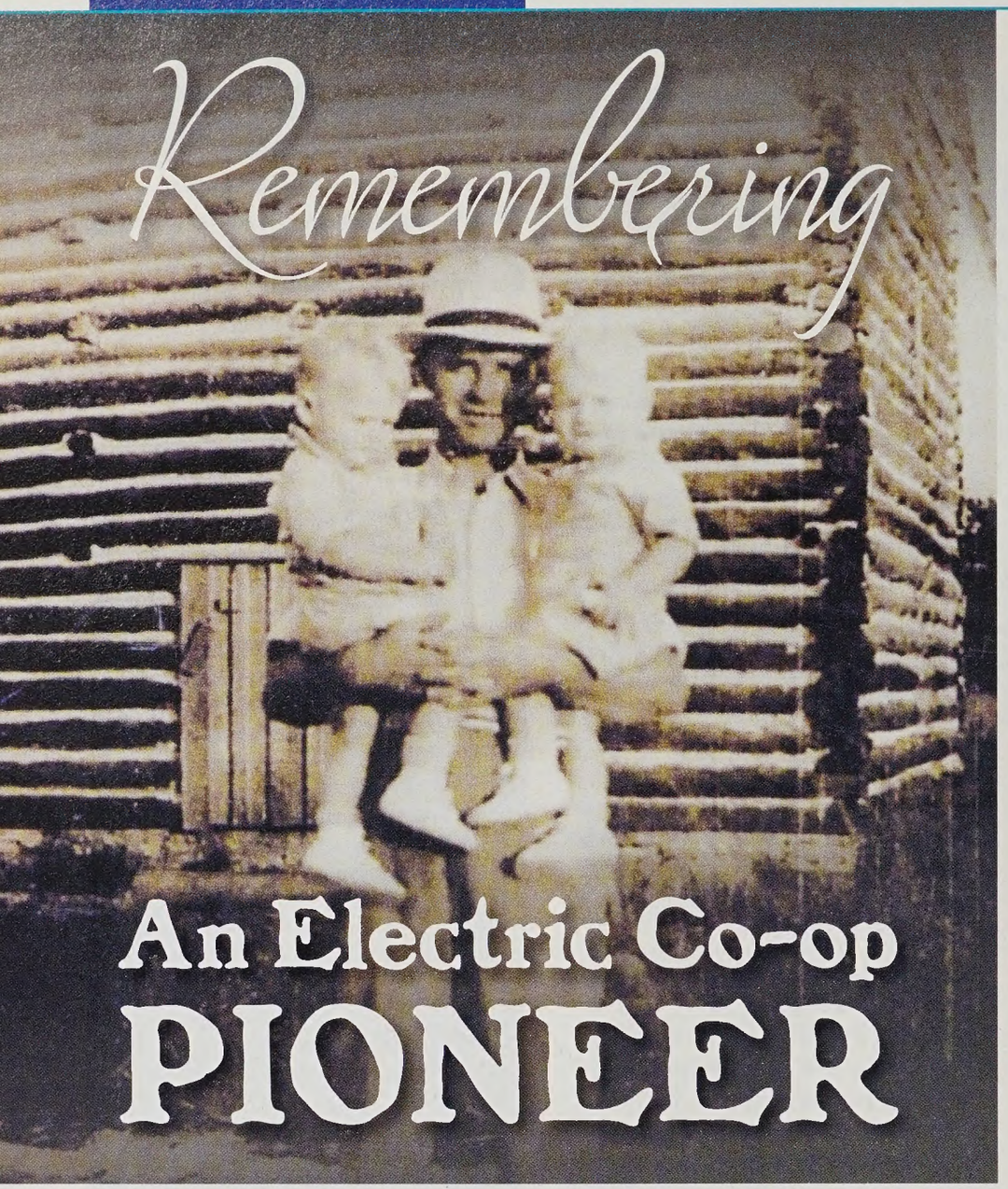

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Remembering



An Electric Co-op PIONEER

McVernon Prescott, Sr., our dad, holding my twin brother and me in 1941. In the background is the old log barn he built. Many a barn of tobacco was cured in the wood-fired furnace.

On July 27, 1942, Pamlico-Beaufort EMC—a part of what is now Tideland EMC in Pantego—began service with 29 miles of line serving 67 members. The manager was Herbert Harris, Sr.

There was another person who was very much involved with the development of the co-op. He was McVernon Prescott, Sr., our dad.

Dad and Herbert Harris were very good friends. I'm sure that he was contacted early on when the plans were being laid for electrical service in Pamlico County. The reason for this is that Dad was a self-taught electrician and was always a step ahead of the average person during this time. He owned one of the first Fordson tractors built by Henry Ford. Later, he bought a 9N Ford tractor. He owned Model T and Model A automobiles, and he was in tune with the times when new models hit the dealerships. He literally owned several new models of Ford cars and trucks during the 1930s, 40s and 50s.

He continued his pursuit of learning all he could about the future of electricity. He worked for Jack Hammond at Hammond Electric in New Bern while managing the farm part time. His knowledge, skills and interest continued to excel and grow to the point that he developed his own power plant. We grew up referring to a shed attached to the garage and pack house as "the plant house." It was years later when we discovered exactly what this was. Yes, it was a gas-powered generator he designed. We were too young to remember, but he had at least two light bulbs wired into this power plant in the house. No one else in the neighborhood had anything like this.

So with this being said, Dad became interested and involved with Pamlico-Beaufort EMC from the beginning. He served on an advisory board. Herbert Harris and later Carlos Holton, managers at the central office in Grantsboro, recognized Dad's skills as an electrician and offered him the job of inspector. This was a part-time job that later became a county government position. He served as inspector for the tri-county area until the day he died in 1976.

I can remember like yesterday when the poles were being erected on Prescott Road by the co-op's first linemen, Louie Earl Grant, L. Ward Cayton, Roy Golden and Francis Grant. Dad would keep us excited by telling us we would soon have electric lights in every room. And I will never forget the night we had lights in the house. What a thrill.

Us and our older brother rode with Dad when he would go out to inspect a house. We traveled all over Pamlico, Beaufort (Aurora area) and Eastern Craven counties in all those Ford cars. We got to meet a lot of people. There have been several stories shared with us about Dad's good customer service as the electrical inspector.

One young recently married couple shared with us that just a few days before he died, Dad was inspecting their house and found a ground wire missing on the panel box. He said "Mr. Mack" left and said he would be right back. When he returned, he had a piece of ground wire, installed it, and set the meter in the box and they had power. We have heard other stories like this.

This year is Tideland EMC's 75th anniversary. Our Dad, McVernon Prescott, Sr., was one of the many early pioneers of bringing electricity into the homes of rural Pamlico County. Another service he provided, free, was tutoring several of the local guys to prepare for the North Carolina Electrical Contractors license exam.

Thanks for allowing us to share this part of our Dad's life with Carolina Country readers.

Larry and Jerry Prescott, New Bern, members of Tideland EMC

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The winning ways of the Carolina Panthers have given their fans plenty to cheer for this year and in years past. Now you can add some winning Panthers fashion to your wardrobe with our all new *"For the Love of the Game" Carolina Panthers Pendant*, officially licensed by NFL Properties LLC and available only from The Bradford Exchange.

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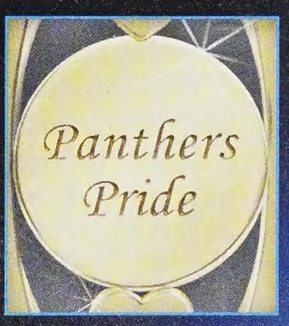
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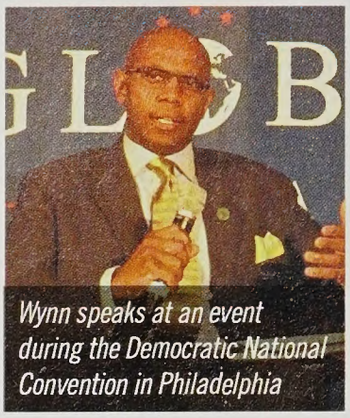
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Wynn speaks at an event during the Democratic National Convention in Philadelphia

Electric Co-ops Represented at National Conventions

Representatives from America's electric cooperatives attended the 2016 Republican and Democratic National Conventions to ensure that the voice of rural America is heard this election season. Co-op leaders from around the country were joined by representatives from the National Rural Electric Cooperative Association (NRECA), the national service organization for America's electric cooperative network.

At the Democratic National Convention in Philadelphia, NRECA secretary-treasurer and Roanoke Electric Cooperative CEO Curtis Wynn participated in a panel discussion at the Global Oval Summit on July 26. He noted that efforts by NRECA International to electrify places from Guatemala to the Philippines in 2016 are strikingly similar to what happened in 1930s rural America.

"America's electric cooperatives have taken the knowledge and the skill set developed over these years to developing nations," said Wynn. "When you look at the parallel relationships between what we went through in the 1930s and what's happening now in developing nations, supporting this effort was really an easy decision for NRECA to make."

NRECA president Mel Coleman was on a July 20 panel at the Global Oval in Cleveland during the Republican National Convention.

"If you lived in rural America 80 years ago, you didn't have power. And that's what's happening in these countries every day," Coleman said. "We're not in the electric business; we're in the life improvement business. And that's what we're doing in the countries that we're in."

—Michael W. Kahn, ECT.coop



(L-R) Jones talks with crew foreman Chip Huneycutt and lineman 1st class Steve Preslar. Crew Foreman Chris Parker is in the truck.

Kenan Fellow Learns from Pee Dee Electric

An innovative Anson County science teacher has deeper understanding of how electric cooperatives deliver power —and serve their communities—after completing a Kenan Fellowship with Pee Dee Electric.

Justin Jones, who teaches fourth and fifth graders at Ansonville Elementary, spent four weeks as a Kenan Fellow at the Wadesboro-based co-op, which serves more than 20,000 members in seven counties. The Fellowships are offered to only about 50 teachers annually and place educators in industry settings to learn first-hand how science, math, engineering and technology concepts apply in the real world.

Jones worked alongside warehousemen, line crews, accountants and even the CEO. He said Kenan Fellowships help teachers to become more effective not only in their classroom, but also in their school and community.

"Anytime you can get involved in something that's hands-on, real-life application of concepts, to me, that's the most valuable professional development a teacher can have," Jones said.

CEO Donnie Spivey said Pee Dee Electric understands the importance of preparing students with a solid educational foundation. "Even more so, we understand the impact that excellence in education can have on a community," said Spivey.

Jones said Pee Dee Electric's values and commitment to community shone through to him. "It's about members. That's their priority. It's about wanting to give the members good service, and wanting to contribute back into local communities."

More information is available at kenanfellows.org.



Make Your Voice Heard This November!

Electric co-ops across the nation are dedicated to making our voices heard at the polls. Plan to vote this November to support issues important to our communities.

Absentee voting by mail begins **September 9** (if absentee voting is permitted in municipality). Register to vote in North Carolina by **October 14** to make your voice heard on Election Day.

Register online at **ncsbe.gov/voter-info**. Voter registration applications also are available at the following locations:

- ★ Public libraries, public high schools and college admissions offices
- ★ NC State Board of Elections
- ★ County Boards of Elections

CO-OPS VOTE
A PROGRAM OF AMERICA'S ELECTRIC COOPERATIVES



Fifteen Lineman Complete Advanced Education

Nash Community College recognized 15 electric cooperative linemen this year for completing advanced education work in the college's Electric Lineman Technology program. Fourteen earned advanced certificates for completing 17 college-level credits, and one completed work for his Associate degree.

The program includes training, safety and security courses in the classroom and outdoors on a specially designed training field built by North Carolina's Electric Cooperatives. They learn skills such as overhead line construction, underground line construction and the National Electrical Safety Code. Beyond classes in line work and energy management, they can take courses ranging from writing and math to critical thinking, computers and communication to work toward an Associate degree.

Since the program began in 1998, 18 co-op linemen have graduated with an Associate Degree in Electric Lineman Technology. The community college program is supported entirely by the cooperatives but is also attended by linemen from Duke Energy and the municipal electric systems. This year, 297 students are enrolled in the electric cooperatives' training schools at Nash Community College.

Listed are the co-op employees who completed the work in 2016.

Associate Degree:

Edgecombe-Martin County EMC
William Scott

Advanced Certificate:

Brunswick EMC
Jeffrey Green, II

Cape Hatteras EC
Joshua Austin
Mark McCracken

Halifax EMC
Craig Abbott
Brett Love

Lumbee River EMC
Stacey Evers
Christopher Taylor
Brian Woriax

Piedmont EMC
David Tilson

Randolph EMC
Mark Albright
Kevin Loflin

Roanoke Electric Cooperative
Russell Flythe
Kenneth Liverman

Union Power Cooperative
Michael Boggan



Barber (right) surprised Brecheisen with the Order of the Long Leaf Pine.

Former Piedmont CEO Receives Top State Honor

Randy Brecheisen, who retired as president & CEO of Hillborough-based Piedmont Electric Membership Corporation in June, has received The Order of the Long Leaf Pine. The award is the highest civilian honor bestowed by the governor of North Carolina.

Bill Barber, Piedmont Electric board chairman, surprised Brecheisen with the award during his June 28 retirement celebration.

"Randy has dedicated his career at Piedmont Electric to those living in the Piedmont region of North Carolina," Barber said. "His efforts have made a significant impact on these communities, and his legacy will continue to strengthen them for decades to come."

During his 33 years with the cooperative, Randy made strategic investments in innovations that helped members better understand and control their energy usage, while at the same time enabling the cooperative to provide better, more reliable electric service, Barber noted. Those investments include advanced meters, outage maps, community solar, online member account access and immediate communication channels through social media.

Also under Brecheisen's leadership, Piedmont Electric secured more than $14 million in Rural Economic Development Loan and Grant (REDLG) funding from the U.S. Department of Agriculture in support of key community development projects.

"It has been an honor serving these communities for more than 30 years," Brecheisen said. "I view this award as recognition of all electric cooperative leaders who have contributed to the growth and development of their rural communities."

Learn more about Brecheisen's career of innovative service in the July issue of Carolina Country.

Blue Ridge Electric Supports Community Development Projects



Blue Ridge Electric director of Innovative Energy Solutions Alan Merck (L) with Lambeth

In the northwest corner of the state, construction crews are hard at work on two projects 30 miles and a county line apart from each other. One, at Ashe Memorial Hospital in Jefferson, will renovate and expand emergency room facilities. The other, at Alleghany County public library in Sparta, will create space for job and computer skills training, and employment search services. As different as these two projects are, they are alike in one important way: Both are supported by funding from Blue Ridge Electric.

"Improving the quality of life and economic development in our local communities is one way cooperatives like Blue Ridge Electric benefit our members," Blue Ridge Electric CEO Doug Johnson said.

The Lenoir-based electric cooperative made loans in support of the projects — $360,000 to the hospital and $306,525 to the library — through the U.S. Department of Agriculture's Rural Economic Development Loan and Grant (REDLG) program. Blue Ridge Electric was recently approved to receive a total of $850,000 through the grant program, the remainder of which will be used to help the Gamewell Fire Department purchase a pumper truck in Lenoir.

Ashe Memorial Hospital has a long history serving the area, having operated as a non-profit community hospital since 1941. The update to its emergency department is the first since 1991.

"We value the community partnership we share with Blue Ridge Electric and are very appreciative of their continued support," said Ashe Memorial Hospital CEO Laura Lambeth. "Blue Ridge Electric's generous loan will go toward the renovation of our Emergency Department. Through the reconfiguration of existing space, we will create seven treatment rooms and five fast track rooms as well as a larger nurses' station. We are committed to providing the highest quality medical care, and the renovation will enhance the overall patient experience."


Merck (L) at the public library site with Blue Ridge Business Development Center manager Dale Caveny

Up the road in Sparta, the public library has been in operation in some form since 1935, serving the community from its current Main Street location since 1980. But residents' needs have outgrown the relatively small red-brick building, sparking an effort to relocate the library to the nearby Blue Ridge Business Development Center. The Board of County Commissioners declared 2016 as the "Year of the Library" to generate awareness of and support for the new facility.

The relocation makes sense for a number of reasons. Having additional space will allow the library to provide increased access to technology resources and enhanced employment search services. And the new location puts the library adjacent to a community college satellite campus and the Alleghany County Workforce Center, creating opportunities for the three organizations to collaborate.

"We believe the use of public-private partnerships with the financial support of the USDA really helps our local economies," Johnson said. "Blue Ridge Electric is proud to be a part of this effort to make life better by helping create additional jobs and improve access to quality of life services such as health care and education."

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Exploring the Roots of Your Family Tree

By Renee Gannon

What began as a quick online search to help with my daughter's sixth grade social studies family tree project soon turned into a hunt to prove a family story that my maternal side had a connection to famed frontiersman, Daniel Boone.

In my search that evening, I uncovered one online family tree that linked my known Boone ancestors with Daniel himself, or "uncle Daniel" to my direct ancestors. We proudly added Daniel's name to complete the project.

But something nagged me about the tree. My curiosity plunged me into a months-long search to prove I linked to Daniel's brother, Jonathan Boon (original spelling), as the tree suggested. But a little more digging told a different story that came down to two John Boons whose families lived in and around Rowan County during the mid-to-late 1700s. One was the offspring of Jonathan, the other became fatherless at an early age. I found many instances of the two Johns causing confusion amongst other family researchers, but finally found the true Boone leaf for my tree.

The answer to the which-John-is-which riddle unraveled a story of a German immigrant named Johan Baltzer Bohn who landed in 1746 Philadelphia on the ship Ann Galley. He soon migrated to North Carolina via southwestern Virginia to raise a family, but died when his children were young. His first-generation American son, John Boon (spelling changed), fought in the American Revolution as a soldier from Rowan County, before settling in Guilford County to raise the next generation of North Carolinians. His descendants didn't stray very far, with subsequent generations living throughout the central Piedmont area of the state, including myself.

Through the search for my family story, I lost a frontiersman, but gained an American patriot.

Creating a tree

How did I unravel the riddle? I had a basic line going back to the John Boon generation, but which John? I needed verification. I started with myself, my parents and grandparents, writing down full names, birth and death dates, places they lived. I kept my search narrow, just following the Boone surname and its many spellings.

Family bibles, vital record certificates found in files and online, as well as online U.S. Census records at familysearch.org (free) and ancestry.com (paid subscription), helped fill in the tree. At the Alamance County Register of Deeds office in Graham, I searched birth, death and marriage certificates, following the information trail of each generation listed on those documents. A search on findagrave.com (free) located the final resting spot of several relatives, including John Boon — the true John Boon on my tree — buried alongside two of his three wives at a church graveyard in Gibsonville.

Pages from that Gibsonville church's records contained more clues about past generations, and online War Department pension records held details of John Boon's war experience.

My Boone genealogy hunt, despite

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a few unsolved mysteries that I continue searching, was easy compared to others. Beginner family researchers often face many roadblocks in locating records, according to Vann Evans, correspondence archivist for the State Archives of North Carolina.

"In North Carolina, the state did not pass vital records legislation requiring birth and death certificates until 1913," Evans explains. "Prior to 1868, most N.C. counties did not retain marriage licenses, which give parent names as with the birth and death certificates."

Evans also notes that women are often difficult to find early on because females were not taxed, did not have voting rights and often did not own property in their name.

"People of African American descent face other unique challenges, especially if their ancestors were enslaved," he adds.

Other problems include destroyed or lost documents from natural disasters, war, theft and fire; as well as the ever-changing county lines that shifted in the early- to mid-1800s. For instance, what is now a part of Alamance County was once Orange County, so any records during those years would be housed at the Orange County courthouse. These roadblocks and misinformation often found at online search sites can lead to frustration.

"The most valuable asset you can have doing your genealogy is your brain and your ability to analyze, if what you are seeing makes sense and if it's possible to have happened at that time and at that place," explains Sheri Liles, a 25-year genealogist veteran and registrar for the General James Moore Chapter of the Daughters of the American Revolution (DAR), in Wake Forest. "The second most valuable asset is your knowledge of history. You have to know what was happening in your ancestors' area at that time."

Where to search

As I and others have learned, don't believe everything you find online.

"You can't rely on any online family tree site to be 100 percent accurate," Liles says. "Some users just throw information on their trees without checking sources. You must pay particular attention to dates, and verify as best you can."

But online searches are becoming more fruitful and increasingly accurate. These websites are constantly adding information beyond the basic vital records and census information. The free site familysearch.org has an ever-growing index of records; and ancestry.com adds on average 1 million documents a day. Other subscription sites include fold3.com for military records, newspapers.com and findmypast.com. Google and Bing searches also produce results; and the DAR website at dar.org has an extensive archives section that is open to members and non-members.

"I look at online sites as a two-part option: one is the family trees built on those sites that may give you hints, and the other is the official documents offered to prove the hints," Liles says. "These sites have millions and millions of records, and all are searchable by name."

Evans recommends beginner genealogists start at the state's online genealogy resources, bit.ly/2b42601 and at archives.ncdcr.gov. The State Archives and its Genealogy Room in Raleigh have staff available to assist researchers on-site. Access to the bulk of the archives is free and open to the public. The state library and many of the state's county libraries offer free access to ancestry.com as well.

"Archival records research, online and in person, can be time consuming and frustrating, but it also is very rewarding when you find that nugget," he says.

County Courthouse Register of Deeds offices are also available to visit, email or phone when searching for vital records (find N.C. county offices at bit.ly/2bf5wdn). Other records that may help include probate records, wills, estates, burial records, land titles and deeds. Local libraries may also have genealogy information.

What about your family story?

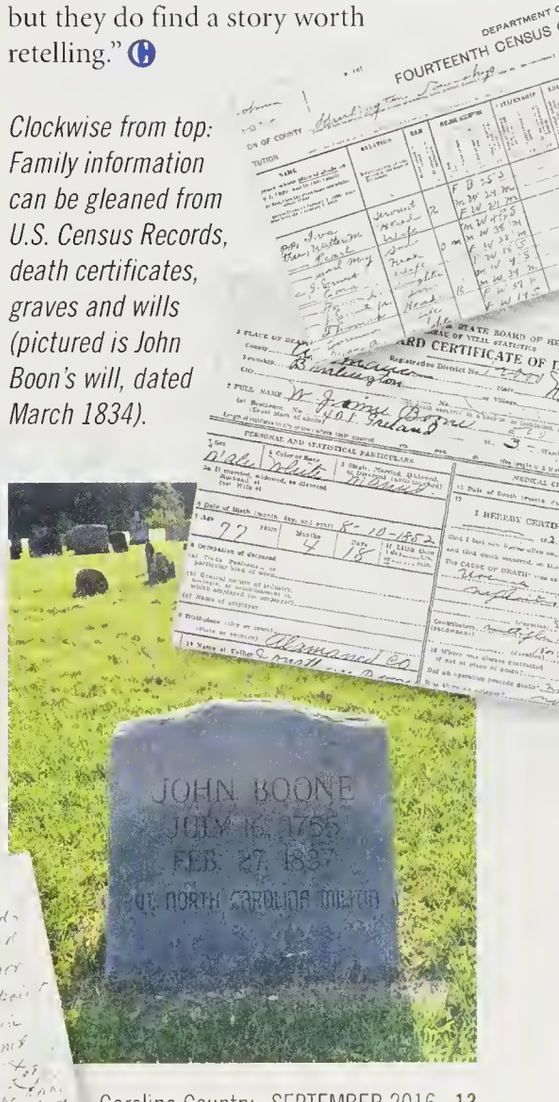
I continue to search and learn more about my Boone family tree. The bits and pieces gleaned from land deeds, wills, vital and census records weave stories about a revolutionary war soldier, farmers, millers, shopkeepers, mill workers, a short-term Confederate soldier, landowners, and yes, slave owners.

Reasons for conducting family research vary. Some just want basics, while others are looking for a personal connection to their ancestors.

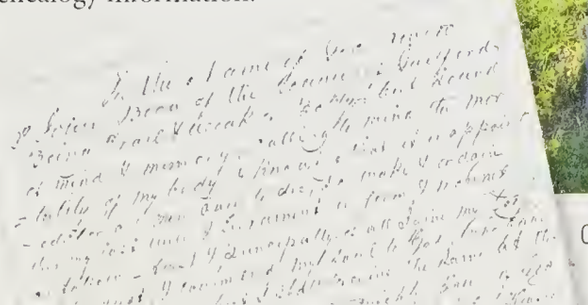
"It becomes a treasure hunt," Evans says. "Most of our ancestors didn't leave diaries or letters, but we can often gain insight into their lives beyond a set of names and dates by using available resources."

And don't be afraid of what you may find.

"My philosophy is that I'm not responsible for what they did, whether good or bad. It's part of my story," Liles says. "It's your family history, how and where they lived. Most people aren't going to find a famous ancestor, but they do find a story worth retelling."



Clockwise from top: Family information can be gleaned from U.S. Census Records, death certificates, graves and wills (pictured is John Boon's will, dated March 1834).





A Fiery Preacher in the Old North State

In 1739, the famed George Whitefield was met by the unexpected in Bath

By Tim Allen

The Grand Itinerant George Whitefield was an Anglican minister from England who excelled in revivalistic preaching that was dramatic, passionate and emotional, often moving many to tears. He made several trips to the American colonies from 1739–1770, and achieved great fame and esteem. Ben Franklin, pretty much an agnostic, was quite taken with him. Whitefield set up an orphanage in the Georgia colony in 1738. He returned to the colonies in 1739 and was a huge success in Philadelphia and New York. But in North Carolina, he encountered a cold welcome.



After leaving Virginia and riding horseback on wild and swampy roads in uninhabited territory, he arrived in the Old North State in December 1739. He passed through Eden Town, "a little Place, beautifully situated by the Water-side," and reached Bath on the evening of December 22. The next day, a Sunday, he preached to a noon-time crowd of 100 people—low for Whitefield, who could draw thousands for his outdoor sermons. Why the lack of enthusiasm?

In a 1743 letter the minister of St. Thomas Church in Bath, Rev. John Garzia, observed, "immorality is arrived to that head among so many, that it requires not only some time but great patience to conquer it."

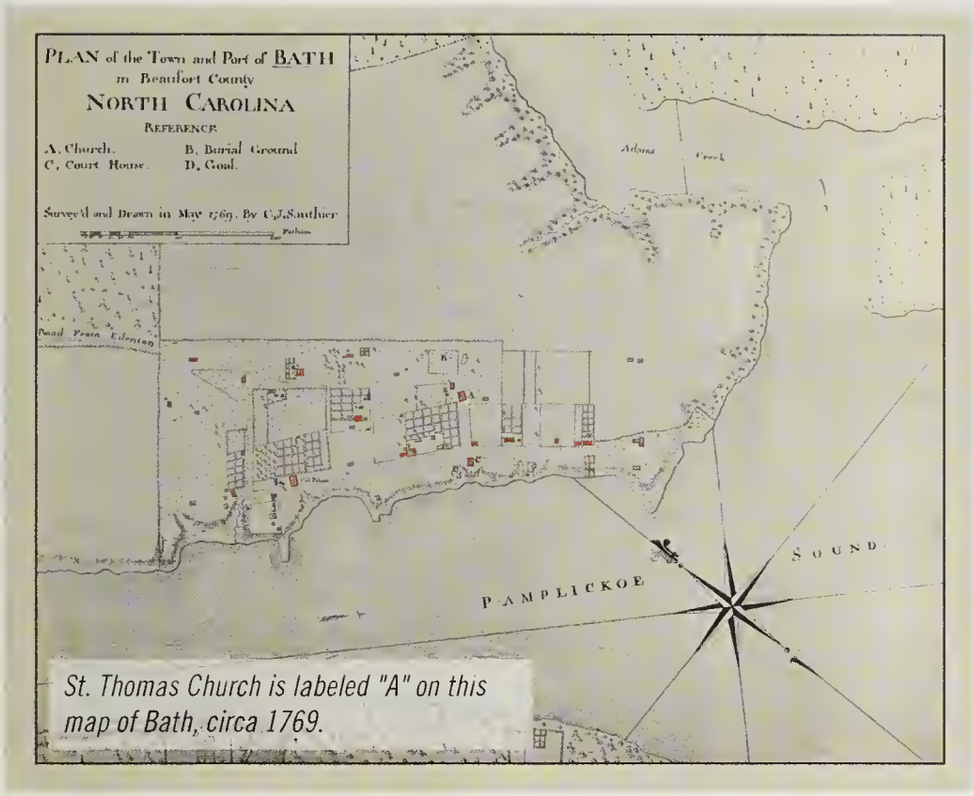
The port of Bath had been frequented by pirates—including the infamous Blackbeard, who had called the area home a mere 20 years before George Whitefield's journey south. It remained a swashbuckling town. The fiery itinerant came down hard on dancing, cursing and drinking, and for the predominantly Anglican audience, this brand of vitriol was not welcome. Neither was Whitefield. In fact, it would be another 20 years before Whitefield cracked the ice of North Carolina's religious indifference.

After preaching in Bath, Whitefield crossed the "Pamplico River" and stayed over at an "Ordinary by the Water-side" (a tavern that served food). On Monday, Christmas Eve, he arrived at Newborn Town (Newbern) where he celebrated the "Lord's Nativity" with friends. On Christmas Day, Whitefield "went to publick Worship," and received the Holy Sacrament from the Church of England minister Rev. John LaPierre, which was celebrated in the "Court-house." Whitefield, unimpressed by the service, later remarked that he "mourned much in Spirit, to see in what an indifferent Manner every Thing was carried on."

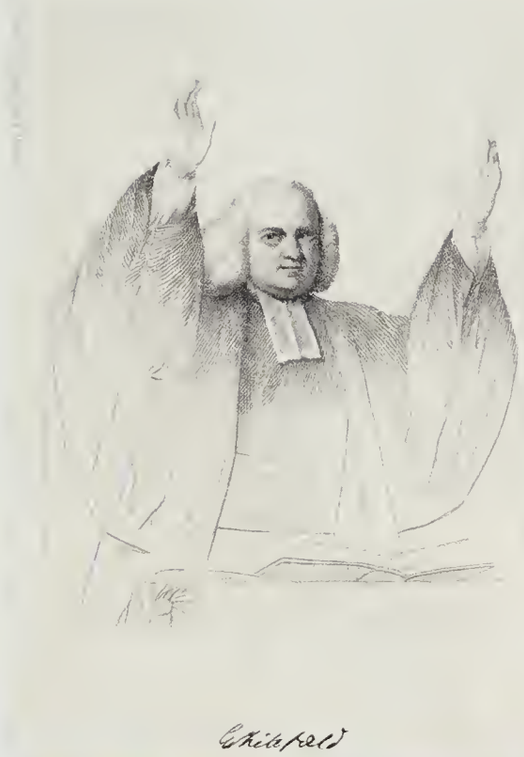
That afternoon, however, he read prayers to the people and then preached to an attentive and enthusiastic crowd—a marked change from the stolid Anglican service of the morning and more in keeping with the reception he was accustomed to.

"The People were uncommonly attentive, most melted into Tears," he wrote of the event. From this experience he was excited about the possibilities of revival in the North State. His enthusiasm was premature.

Above: A 1783 engraving of George Whitefield. Source: New York Public Library



St. Thomas Church is labeled "A" on this map of Bath, circa 1769.



Eight miles outside of Newborn, while staying at the inn of a German family that night, Whitefield reflected in his journal about the day's events. He was distraught that there was a dancing teacher in every small town yet there was scarce to be found a minister for the people. "…such sinful Entertainments are a Reproach, and will, in Time, be the Ruin of any People."

Two days later he was in New Town, present day Wilmington. Here he rested until December 30, a Sunday, when he preached morning and evening to a disappointingly small crowd. Whitefield noted that some in the "congregation" were Scottish. (They eventually formed the Protestant Presbyterian Church of Wilmington, now known as First Presbyterian Church.) Having spent a week in North Carolina with little to show for it, from Wilmington he left for South Carolina.

A few days later Whitefield lamented: "In North Carolina there is scarce so much as the Form of Religion. Two Churches were begun for some Time, but neither finish'd. There are several Dancing-masters but scarce one regularly settled Minister."

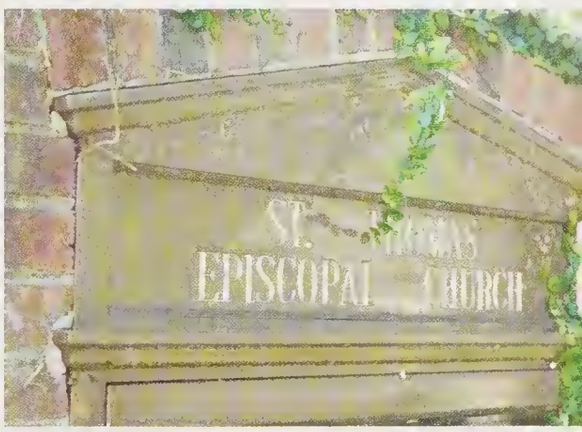
In the fall of 1744, Whitefield left the South to return to the northern American colonies. A year later he itinerated southward, but once more he found a "loose" lifestyle of dancing and entertainments perpetuated religious indifference in North Carolina.

In 1747 Whitefield was recuperating in "the ungospelized wilds" around Bath where he wrote in a letter: "I wanted to let North Carolina have as much time as I could." The aging grand itinerant was beginning to see success in North Carolina. "The barren wilderness was made to smile all the way. I trust good was done in North Carolina. The poor people were very willing to hear."

Whitefield returned to Bath in 1764. In 1765, according to legend, he was run off from Bath. Whitefield, citing the New Testament, took off his shoes, waved them in the air, shook the dust off his feet and cursed the town of Bath for a hundred years. Yet, according to state archives documents, there is no merit to this myth. In fact, there are indications that Whitefield was treated amicably.

But curse or no, from that day forward the economy of Bath dwindled as ships began porting in other North Carolina coastal cities — especially the more accessible Washington — and the wealthy moved to more prosperous ventures in other areas. A hundred years later, Bath had become the quiet town we know today.

Tim Allen is a North Carolina-based author and award-winning professor of history, religion and humanities. His latest book, written with Steve Miller, is "Slave Escapes and the Underground Railroad in North Carolina" (History Press).





Top: An etching of Whitefield preaching Opposite page and above: St. Thomas Episcopal Church in Bath has been an active parish for more than 300 years. Services are still held in the historic structure every Sunday.



Don't Sit on the Toilet During a Thunderstorm!

And other times Mama was right

By Donna Campbell Smith

Summer thunderstorms are common in eastern North Carolina, where I grew up. Mama was scared to death of lightning. Daddy tried to joke off her irrational fears, but Mama was seriously afraid of one of us being struck by lightning. When there was a crash of thunder Mama would cover her ears and close her eyes and sometimes draw up her knees in a sort of sitting-up, fetal position.

We had to turn off all electrical appliances. We couldn't use the bathroom or run water because the metal pipes "attracted lightning." Anything made of metal was to be avoided, including needles. So, we couldn't sew, watch television or cook. About the only thing we could do was read or sit around talking and playing board games.

If we children had any doubts about the power and danger of lightning, the stories of fireballs rolling through the shotgun hallway of a distant cousin's house and other tales kept us in line.

I didn't inherit Mama's seemingly irrational fear of thunderstorms, but I am a believer in not tempting fate by staying outdoors in one. And Mama's fears were not all unfounded. Over the past 10 years, an average 31 people were killed by lighting each year in the United States, according to the National Oceanic and Atmospheric Administration. The most likely times to be struck are in the summer months between two and four o'clock in the afternoon.

North Carolina ranked second highest in lightning-related casualties, including injuries and deaths, from 1959 to 2007, according to a study by the National Weather Service, with 186 recorded deaths during that 48-year period. More recent statistics show North Carolina remains in the top 10 for deaths by lightning.

The National Lightning Safety Institute (NLSI) recommends you plan evacuation and safety measures in advance when participating in any outdoor activity. As soon as you hear thunder, activate your plan. Don't wait until it starts to rain, because lightning often hits before it rains, according to NLSI. If you feel your hair standing on end, and/or hear a crackling noise, you are already in lightning's field and must take immediate action.

In this situation get away from water, high ground and open spaces. Avoid all metal objects including fences, machinery, power lines and towers, and motors. Open sheds like picnic and rain shelters or under a lone tree will keep you from getting wet, but will not protect you from lightning. In 1961, eight people were killed by lightning while taking shelter under a tobacco barn in Clinton, which remains the largest number to be killed by a single bolt in the United States.

Old caves or abandoned mines are not safe havens either, according to NLSI. They can be deadly shelters because the walls could have conductive metals in them. Also keep in mind that jagged outcrops of rock are more likely to be hit than smooth surfaces.

If possible, find shelter in a substantial building or wait in your car for the storm to blow over. If those shelters are not available move to lower ground, preferably near a group of low trees. Immediately remove metal objects from your person, place your feet together, duck your head and crouch down low, in a baseball catcher's stance, with your hands on your knees.

If you are indoors, there are also precautions you should take. It turns out my mother was right about avoiding electrical appliances and plumbing. The National Weather Service warns us to stay off corded phones, computers and other electrical equipment that put you in direct contact with electricity. Avoid plumbing, including sinks, baths and faucets. Stay away from windows and doors, and stay off porches. Do not lie on concrete floors, and do not lean against concrete walls.

Well, Mama was right in most of her safety instructions. I don't wash dishes, take showers, or use the toilet during a thunderstorm. I unplug my computer and stay off the landline phone. Better safe than sorry. What do I do to while away the time during a thunder and lightning storm? Well, there is something cozy about curling up with a good book while Mother Nature does her thing outside. Mama's warnings were not silly at all, and I am happy to take a break with a good book until it all blows over.

Donna Campbell Smith is a Carolina Country contributing writer who lives in Franklin County.

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Sit, chat and charge – a popular pastime at UNC Pembroke, where a solar-powered charging station is built into a patio table.

Willis Glassgow

Growing Greener on Campus

N.C. college students are finding new ways to support sustainable causes

By Hannah Miller

UNC's Old Well. NC State's Memorial Belltower. The Duke Chapel. When college landmarks come to mind, you can now add to the list "solar panels" and "wind turbine" for two North Carolina campuses.

At UNC Pembroke, what started as a student effort to get local food in the campus cafeteria on a consistent, non-seasonal basis has blossomed into a full-fledged, student-financed environmental initiative. It includes solar energy but goes beyond it.

And at Edgecombe Community College in Tarboro, served by Edgecombe-Martin County EMC, a 30-foot vertical wind turbine and a solar panel working together provide energy to a remote weather station. Dr. Stan Garren, the instructor in charge, calls the alternative energy-based system "a really creative learning tool."

His manufacturing technology students use the setup to deal with the kinds of challenges they'll face in future jobs—calculating electrical load and figuring out how to meet it, working with statistical data, and managing wireless networking.

Fired up about food

Justin Duncan of Raleigh, now a coordinator in Pembroke's sustainability office, was one of those students who first pushed for more local food back in 2013. A reduced carbon footprint was the idea; the fewer trucking miles, the cleaner the air.

The process has been slow; there are regulatory hurdles. But food services director Sandra Jackson says she's talking with Eddie Moore of Moore Brothers Natural in Waculla in hopes of getting some of his beef in the cafeteria this school year (see sidebar on page 19).

"[In 2013,] we were energized and charged up and ready to take on the world of local food," Duncan remembers. "There were students interested in working for that cause, but they wanted to do more."

They formed a Greener Coalition that successfully lobbied other students to support a $5 activity fee for green causes.

Now, every time students gather outside the college bookstore to snack or talk, they can enjoy a result of that effort. A solar panel in a canopy over one of several outside tables fuels a cell-phone and computer charger in the canopy's base.

Batteries store the sun's energy so that the station can operate 24/7.

"Most of the time, that solar table is the one people crowd up at," says Jay Blauser, a member of South River EMC and Pembroke's sustainability director.

Solar panels also feed four parking lot charging stations for electric cars. Adam Kelly drives his Chevy Volt 35 miles between Fayetteville and Pembroke three times a week. What does he have to say about the charging option? "This is awesome."

The impassioned students wanted to involve others in their environment-saving quest, so the activity fee, since raised to $7, supports other green projects. They're carried out by Blauser, energy management director Terry Divine and two interns whose salaries are paid by the fee.

Among other tasks, intern Jay Ritchie of Salisbury spent hours one day last spring reading electric meters at dormitories and student apartments to determine who was saving the most energy—and therefore deserving of a pizza party. Intern Kayla Cox of Kinston collected unserved food from the food services department for local anti-hunger efforts.

Freshmen and new staff members are greeted by an orientation in energy-saving, and, thanks partly to the green movement, the college this year will add a sustainabilities minor to its academic curriculum.

Powering education

"Watts" up at Edgecombe Community College? For one, a 30-foot-tall vertical axis wind turbine outside the manufacturing technology building. A solar panel is another.

Lacking strong winds at its inland location, the turbine's output is minimal. A wind speed of 27 mph—unusually strong for Edgecombe County—would produce 1,000 watts, only enough to power a hair dryer.

"You could always dry your hair on a very, very windy day," Garren jokes.


Hannah Miller

Robeson County cattle farmer Eddie Moore

Moore Brothers Natural

Where's the beef? Grazing on a 200-acre Robeson County farm, and shortly (some UNC Pembroke students hope) on food trays in the college cafeteria.

The initial goal of the student green movement, combating highway pollution by acquiring food close to home, may be met in the coming school year. Cattle farmers Eddie and Luther Moore, owners of Moore Brothers Natural and members of Lumbee River EMC, are working with the college food service to make that happen.

Justin Duncan, a former movement leader and now a coordinator in the college's sustainability office, says local food encourages a connection between the college and the community.

And nobody could be more closely connected than the Moores. Their great-grandfather, the Rev. W.L. Moore, a member of the Lumbee Tribe, was the first headmaster of the school that grew into UNC Pembroke. Moore Hall is named for him.



Hannah Miller


Hannah Miller

Top left: UNC Pembroke student Adam Kelly charges his Chevy Volt. Top right: Edgecombe Community College students maintain a 30-foot wind turbine.

That output is far too small to go into Edgecombe-Martin EMC's campus grid. But, paired with the solar panel and a charging system, the turbine-as-learning tool "probably has more impact than if it were tied into the power system on campus and we were trying to run a light," Garren says.

The turbine and nearby solar panel fuel batteries that run a remote weather station in the same parking lot. The station uses FM radio waves to send real-time information on wind, temperature, humidity and barometric pressure to a receiver in the building, which puts the information in digital form.

Energy management students "have to figure out how much power they can expect from the solar panel and the wind turbine, and how much storage they need the battery to have," Garren says.

The weather station requires a constant 40 watts, but the supply of sun and wind varies. Students work through real-world questions such as optimal battery size, according to Garren. And their involvement leads them to broader questions, like: "How do you measure humidity?"

"Solving the problems—students enjoy that," he says.

After the receiver puts the weather information in digital form, it's up to Garren and students to decide how to display it on their dedicated webpage. "Students can basically create how the data appears," he says.

In analyzing the weather statistics, they use the same tools that industry uses in quality control. And working with the receiver-computer system teaches about wireless networking, a mainstay of modern manufacturing. The whole system is hands-on.

"Students are engaged," Garren says.

Hannah Miller is a Carolina Country contributing writer who lives in Charlotte.

I Remember...



One Big Farm Family, Animals Included

From the earliest years, animals were an important part of my life.

We laughed each autumn to see Peek-a-Boo the pig munching apples off the ground below the branches of the apple trees. She stayed in her pen during the rest of the year, but the sweet smell of apples always enticed her to escape.

Chickens scratched in the yard and perched on roosts in the hen house at night. Sometimes the eggs in the nesting boxes were still warm when we gathered them. One day, Daddy reached under a hen and she laid an egg in his hand. We were always excited to crack an egg and discover a double yolk.

Velvet the cow grazed in the pasture and was led into the barn to be milked. We usually watched the first few squirts of milk land in the tin pail before scampering away to play in the hay mow. When we returned, the bucket was full of fresh, frothy milk and Velvet was contentedly chewing her cud.

Gentle dogs welcomed table scraps from us, then licked our fingers, causing us to giggle. We enjoyed cats, birds, fish and turtles. Later, hamsters and guinea pigs were included. The list expanded over the years to experience gerbils, mice, rabbits, prairie dogs and horses, thanks to positive exposure to animals from an early age.

Rose Lagrow, Hamlet, a member of Pee Dee Electric

Riding a Hog Backwards

Years ago, my stepfather raised hogs. My mother hated them. They would get out of the lot and root up the yard and everywhere else.

One evening she had gone to the barn to milk the cow, and the hogs were eating some corn in the path to the barn. On her way back to the house with the bucket full of milk, one of the dogs bit one of the hogs on the behind and the hog ran toward my mother from behind and ran right between her legs. She was now riding the hog backwards. Suddenly the hog ran out from under her, and left my mother lying on the ground with a spilt bucket of milk. She was very upset, but we all had a good laugh.

Lorna Scott, Todd, a member of Blue Ridge Electric



Young and in Love

This is Julian Humphrey, my fiancée at the time, and Letha (you've heard of me). Well, Grandma Annie lived in an old little red house with a store in walking distance and a church next door. At one of her dinners we were picture taking. Julian was 25 and I was verily 16. We were so in love and still are. It's been 52 years almost!

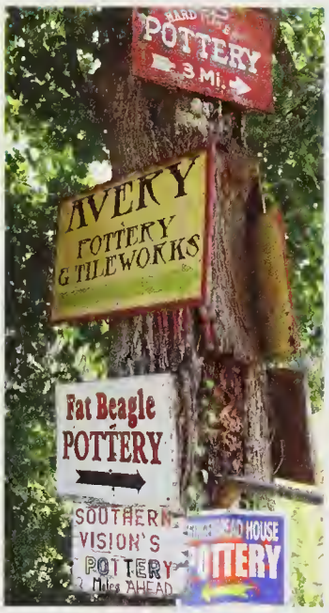
Letha Mae Humphrey writes to us regularly from Greene County. She and her husband, Julian, have been members of Pitt & Greene EMC since 1966.

SEND US YOUR *Memories*

Guidelines:

- We'll pay $50 for those we publish in the magazine.
- Approximately 200 words.
- Digital photos must be at least 600kb or 1200 by 800 pixels.
- Only one entry per household per month.
- Send a self-addressed, stamped envelope if you want yours returned.
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North Carolina's beautiful beaches, mountains and Piedmont region offer numerous opportunities for a "Seekender" adventure.

Three-Day Getaways

Making the most of your weekend travel adventures

Whether it's utilizing an extra day off due to a holiday or tacking on a vacation day to lengthen a weekend, people are taking advantage of three-day weekends to travel.

Weekend travel may be attributed to more people "working to live" rather than "living to work." In fact, 68 percent of Americans would rather embark on a bucket-list trip than get a big promotion, according to a recent Hampton by Hilton survey.

These trips don't have to break the bank, especially when flying isn't essential for a memorable adventure. Driving is a cost-effective, easy way to jumpstart your vacation. Gas prices in the U.S. have been at a record low, according to AAA's 2016 Your Driving Costs study. With that in mind, it's an ideal time for road trips.

"You don't need a full week to enjoy a vacation. Many of the best times I've had with my family have happened on three-day travel adventures," says Kristen Hewitt, sports reporter and blogger at mommyinsports.com.

This weekend mindset has inspired a new travel segment known as the "Seekender." Seekenders are bold adventurers who take advantage of the weekend to pursue their passions. For inspiration, you can follow Hewitt's Seekender adventures on hamptonseekender.com. Check out these travel tips to get the most out of every moment of your next three-day trip.

Target the four-hour mark

You don't want to spend two days of your three-day vacation traveling, so pick a destination you can access in four hours or fewer. Following this rule ensures you have as much time as possible to enjoy your destination. Plus, if you travel with kids, they'll be more mellow and you'll avoid those "Are we there yet?" moments.

Choosing accommodations

Choose accommodations such as inns, motels and hotels close to the attractions you'd like to visit and ideally, close to restaurants, too. Or if you prefer to camp in a tent or stay in a cabin, select a location that has essential provisions either nearby or on the way in case you forget something.

Free up the itinerary

It's tempting to do as much as possible in three days, but you can end up stressed and exhausted. For long weekends, select one, possibly two, main activities you want to do. Leave the rest of the time open for exploration and spontaneity.

Pack right, pack light

Resist the temptation to over-pack. Instead, pack for versatility. Add layering items such as a T-shirt and light jacket and a few accessories that transform outfits quickly, such as a statement watch or jewelry, scarves and hats. A packing trick to get the most out of luggage space: Roll up your pieces of clothing. You'll fit more in and eliminate wrinkles!

— Brandpoint

N.C. Deals

A three-day trip doesn't have to break the bank. You can find special offers and packages and search by city, region and time period at visitnc.com/travel-deals. Also, a state-specific Groupon page (groupon.com/local/north-carolina) lists deals across the state such as cheaper museum tickets and discounted wine tours.

Paying Off Your Debts

Savvy tactics put you on path for brighter financial future

By Allison Goldberg



Ignored debt can be like a shadow in the late afternoon, growing exponentially thanks to compounding monthly interest rates. Don't let financial gloom sneak up on you. Be proactive. Using common-sense tactics, you can pay off your debts.

Stop creating new debt

Paying off your debt will make you happier than buying something you don't need. Make a tight budget and stick to it. Avoid using your credit cards and consider temporarily freezing your credit card accounts. Make your own lunches and coffee. Buy generic brands. Free up money every reasonable way you can.

Assess your debt

Make a list of your debts with amounts owed and interest rates. Call your credit card companies. Explain that you are making a plan to pay off your debt and improve your credit score. Ask them to lower your interest rate. The worst-case scenario is hearing, "No, we can't," a few times. The best-case scenario is reducing your interest rate by a few points, which will reduce the time and money necessary to pay off your debts.

Use the avalanche method

If possible and financially sound, transfer all or a portion of the balance of your highest interest rate credit card to your lowest interest rate credit card. Make certain that transfers are not subject to higher interest rates, special offers won't expire and lead to higher interest rates, and do not exceed your credit limit, which might result in additional fees or penalties.

While continuing to pay at least the minimum payment on all your accounts, pay as much as possible on the account with the highest interest rate. Once your highest interest rate account is paid in full, add the amount you were paying on the highest interest rate account to the minimum monthly payment on your next highest interest rate account. This is often referred to as the avalanche method for paying off debt.

The more debt you pay off, the more money you have each month to pay off remaining debt, creating a monetary snowball effect that will work in your favor.

Borrow from yourself

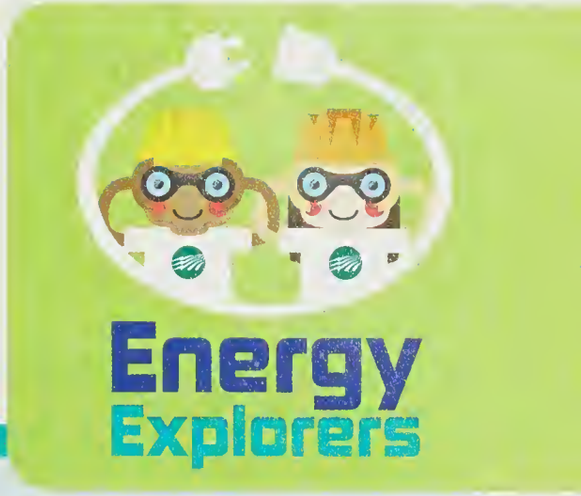
If you can pay off your debt without dipping into your savings, 401(k) account or a life insurance policy with cash value, you should. However, if you must dip into your savings account, add the debt to your list and pay back more than what you borrowed. Always maintain an emergency fund to keep the next car or home repair from sending you further into debt.

Alternatively, consider taking a loan from your 401(k) or life insurance policy with cash value. The interest rates for doing so are often below commercial rates, especially for someone with a low credit score. Gather information about borrowing from your 401(k) or life insurance policy and decide if it is the right choice for your situation.

Allison Goldberg writes and edits for the National Rural Electric Cooperative Association, the Arlington, Va.-based service arm of the nation's 900-plus consumer-owned, not-for-profit electric cooperatives.

Flipping the Switch

Do you know you can save energy every day in your home? By turning off appliances that are not in use, you have the power to save energy! For example, while the sun is shining, windows can allow sunlight into your house without having to turn on a lamp or a light switch.

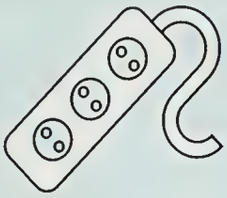


Word Scramble

Unscramble the letters to reveal the names of common appliances and electronics that you should turn off when not in use. Use the pictures below for clues.

APPLIANCES:

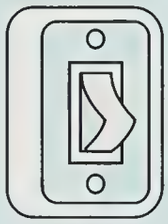




1. GLEICIN NAF _____

2. HTATOSMERT _____

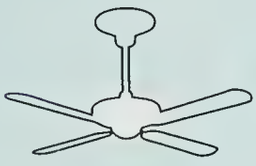


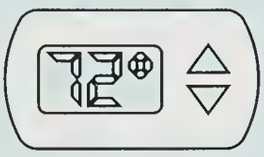


3. HGTIL HCTWIS _____

4. ONSILEETVI _____

5. EWROP PRTIS _____





6. MGAE NOESCLO _____

Answer Key:
1. CEILING FAN 2. THERMOSTAT 3. LIGHT SWITCH
4. TELEVISION 5. POWER STRIP 6. GAME CONSOLE

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Child Seat Safety

Have child car seats checked this month

If you are a parent or caregiver, one of the best ways to protect your children is to place them in the right car seats for their age and size, install the seats correctly, and ensure that the car seats fit properly in the back seats of your vehicles.



Motor vehicle crashes are a leading killer of children 12 and younger. Nationally, from 2010 to 2014 an estimated 601,000 children were injured and 3,181 were killed while riding in cars, pickups, vans and SUVs.

In North Carolina, on average, more than 68,000 children from birth to age 15 are involved in vehicle crashes each year, according to a Child Passenger Safety Week proclamation signed by Gov. Pat McCrory in 2015.

Child Passenger Safety Week

Car seats are frequently misused. That's why Child Passenger Safety Week, held Sunday through Saturday, September 18–24, is an important reminder for parents to use the right seats the right way. The week's highlight is National Seat Check Saturday on September 24, when parents, guardians, and caregivers, along with their children or charges, can visit local child car seat inspection stations for free and have certified technicians teach them how to install their car seats correctly.

The technicians will also help determine if children are ready to move from one kind of seat to another or on to seat belts, and can show people how to register car seats in case of seat recalls. If you can't make it to a station Saturday, you can still have your car seat examined at year-round child car seat inspection stations. These visits are by appointment and usually free.

To locate stations in your area, visit buckleupnc.org, which also lists special events held during Child Passenger Safety Week.

Sources for this article included NHTSA.

Expert Recommendations

The National Highway Traffic Safety Administration recommends children ride in the back seat until age 13. NHTSA's other recommendations include:



Birth-12 months | A child under age 1 should always ride in a rear-facing car seat. There are various types. Infant-only seats can only be used rear-facing. Convertible and all-in-one seats typically have higher height and weight limits. They allow you to keep your child rear-facing in the back seat longer.



1-3 years | Keeping your child rear-facing as long as possible is the best way to keep him or her safe. A child should remain in a rear-facing car seat until he or she reaches the top height or weight limit allowed by the car seat's manufacturer. Once the child outgrows the rear-facing car seat, your child is ready for a forward-facing car seat with a harness and tether.



4-7 years | Keep a child in a forward-facing car seat with a harness and tether until he or she reaches the top height or weight limit allowed by the seat's manufacturer. Once the child outgrows the forward-facing car seat, it's time for a booster seat (but still in the back seat).



8-12 years | Your child should remain in a booster seat until he or she is big enough to fit into a seat belt properly. The lap belt must lie snugly across the upper thighs, not the stomach. The shoulder belt should lie snugly across the shoulder and chest and not cross the neck or face.

Note: Safety recommendations vary, but for information about the North Carolina Child Passenger Safety law visit bit.ly/NC-ChildSeatLaw

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PITTSBURGH AUTOMOTIVE

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62496/62516

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- Weighs 34 lbs.

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SUPER COUPON — 27 LED PORTABLE WORKLIGHT/FLASHLIGHT

Customer Rating ★★★★★

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Batteries included.



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SUPER COUPON — BADLAND 2500 LB. ELECTRIC WINCH WITH WIRELESS REMOTE CONTROL

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Customer Rating ★★★½

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SUPER COUPON — 2.5 HP, 21 GALLON 125 PSI VERTICAL AIR COMPRESSOR

CENTRALPNEUMATIC



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SAVE $337

Customer Rating ★★★½

$159.99 comp at $497

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PITTSBURGH SAE

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Customer Rating ★★★★★

METRIC LOT 63171 42305/69044

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SUPER COUPON — PREDATOR GENERATORS 8750 PEAK/7000 RUNNING WATTS 13 HP (420 CC) GAS GENERATORS

SAVE $459

- 76 dB Noise Level



Customer Rating ★★★★★

SUPER QUIET

LOT 68530/63086 63085/69671 shown

LOT 68525/69677 63087/63088 CALIFORNIA ONLY

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SUPER COUPON — FOLDABLE ALUMINUM SPORTS CHAIR

Customer Rating ★★★★★



- 250 lb. capacity

SAVE 56%

LOT 63066 62314 66383 shown

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Customer Rating ★★★★

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SUPER COUPON — TWO TIER COLLAPSIBLE EASY-STORE STEP LADDER

SAVE 40%

LOT 67514

Customer Rating ★★★★★

- 225 lb. capacity



$19.99 comp at $33.66

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SUPER COUPON — 26", 4 DRAWER TOOL CART

- 580 lb. capacity



US★GENERAL

SAVE $209

LOT 95659 shown 61634/61952

Customer Rating ★★★★½

$109.99 comp at $319.01

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SUPER COUPON — 3 PIECE DECORATIVE SOLAR LED LIGHTS

SAVE 70%

one stop gardens

LOT 95588/60561 69462 shown



Customer Rating ★★★★★

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WOW SUPER COUPON — MULTIFUNCTION POWER TOOL

CHICAGO ELECTRIC POWER TOOLS



SAVE 70%

Customer Rating ★★★★

LOT 62279 62302/62866 68861 shown

8 Functions: Sanding, Remove Grout, Cut Metal, Cut Flooring, Cut Plastic, Plunge Cut, Scrape Concrete, Scrape Flooring

$14.99 ~~$19.99~~ comp at $49.99

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SUPER COUPON — 6.5 HP (212 CC) OHV HORIZONTAL SHAFT GAS ENGINES

SAVE $228

PREDATOR ENGINES

LOT 60363/69730



LOT 68121 69727 shown CALIFORNIA ONLY

$99.99 comp at $328

Customer Rating ★★★★★

16786429

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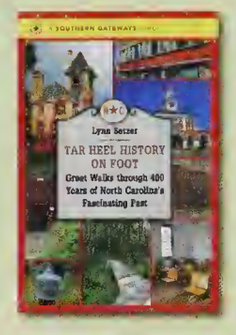
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on the bookshelf

This themed collection of books is a tribute to North Carolina's rich, diverse and colorful history.

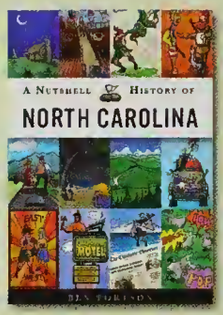
Tar Heel History on Foot



Veteran guidebook author Lynn Setzer, a North Carolina native, leads readers on 34 short walks in state parks and natural areas, state historic sites, charming small towns from the mountains to the sea, and the state's largest cities. Setzer brings to life momentous events, accomplished and notorious characters, and the most famous "firsts." These walks are varied, pleasant, and accessible to most readers, including older day-trippers and families with young children. Organized by theme and location, the walks have maps and photographs, and information on each's length and difficulty. A list of sources directs readers to additional information. Softcover ($20), e-book ($19.99), 66 b&w images, 39 maps, 368 pages.

1-800-848-6224
uncpress.unc.edu

A Nutshell History of North Carolina



Author and illustrator Ben Fortson presents the state's colorful history in the form of off-the-wall anecdotes, insights and sublimely silly illustrations. Eager to expose the quirky and sometimes ridiculous plot lines of history, his most recent book provides an educational and amusing portrait of his home state, complete with equally unorthodox illustrations. For example, readers can get to know Daniel Boone's larger-than-life Carolina personality, learn about Levi Coffin and The Underground Railroad, or peruse a humorous account of the Andrew Jackson birthplace controversy. Fortson lives in Black Mountain. Softcover ($21.99), 105 b&w images, 240 pages.

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Cherokee Stories of the Past



The Cherokee Indians of Western North Carolina have endured both hard times and good in a world that changed dramatically around them. Author Roy Cantrell lived and worked among these Native Americans, collecting stories of the people he knew and loved. There are characters like Sarah Bradley, a feisty elderly lady who fought off dogs, bears, and rattlesnakes, and Amoneeta Sequoyah, a medicine man. Chief Tom Jumper sported an outfit of leather, beads, and a richly feathered headdress, not because that's what Cherokees really wore, but because tourists expected it. Cantrell writes of the time before the casino came to town, when his subjects frequently struggled to stay alive but never lost sight of nature's gifts. Softcover ($8.85), more than 25 b&w images, 80 pages.

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QTY	DESCRIPTION	PRICE	TOTAL
1	6-Coin Collector's Set *(limit 1 set)*	$6.00	$6.00
	Display Folders – SAVE 15%	$2.95	
	***FREE** Shipping!* Merchandise **TOTAL**		$

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❑ Check or Money Order payable to Littleton Coin Company
Charge my: ❑ VISA ❑ MasterCard ❑ American Express ❑ Discover

Card No. _____ Exp Date ____/____

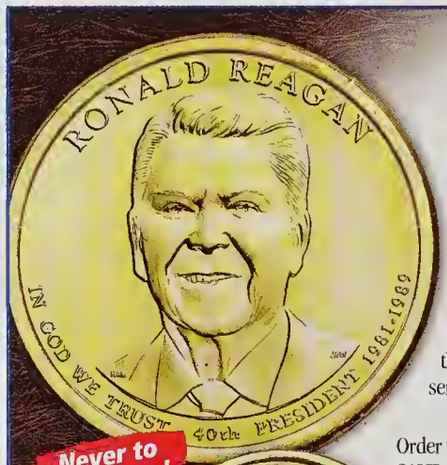
Please send coupon to:
Littleton Coin Co., Dept. 4HP406
1309 Mt. Eustis Rd, Littleton NH 03561-3737
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Reagan dollar – last-ever Presidential coin!

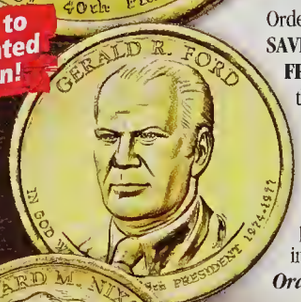
COLLECTOR'S SET

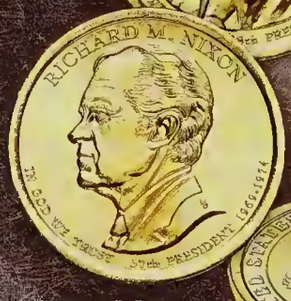
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Order your Complete Uncirculated 6-coin set today at face value of ***ONLY $6*** and **SAVE 65%** off the regular price of ~~$17.50~~. Plus, respond within 30 days and get a **FREE** Uncirculated 2016 Harpers Ferry National Historical Park quarter – honoring the site of abolitionist John Brown's last stand, as well as the largest surrender of federal troops during the Civil War.

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45-Day Money Back Guarantee of Satisfaction



Year of issue & "P" or "D" mint marks are inscribed on the edge.

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	____	____	____	____
#298 Men's	S (6-7)	M (7½-8½)	L (9-10½)	XL (11-12)
	____	____	____	____

____ Pr(s) Memory Foam Moccasin Boots @ $14.99 pr.	$
CA residents must add 7.5% sales tax	$
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☐ ✓ FOR EXPEDITED SHIPPING *(optional)* Add An Additional $2.95 (receive your order 5-7 days from shipment)	$ 2.95
Please Print Clearly — TOTAL	$

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Address _____

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Daytime Phone # _____

Email Address _____

Check or money order **payable** to: **Dream Products, Inc.**
Send Order To: 412 Dream Lane, Van Nuys, CA 91496











MumFest October 8-9, 2016

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30 YEARS OF RAVING FANS

EVENTS
- BOAT SHOW
- ROAD RACE
- SAILING REGATTA
- CHEFS TENT
- FISHING TOURNAMENT

September Events



Apple Festival
Arts & crafts, entertainment
Sept. 2–5, Hendersonville

Mountains

Apple Festival
Arts & crafts, entertainment
Sept. 2–5, Hendersonville
828-697-4557
ncapplefestival.org

Mayview Madness 5K
1 mile kids fun run
Sept. 3, Blowing Rock
828-264-2511
blueridgeconservancy.org

Farm to Fork Dining on the Square
Live entertainment
Sept. 4, Burnsville
828-682-7413
tractorfoodandfarms.com

Literary Festival
Improvisations, readings, workshops
Sept. 8–10, Burnsville
828-208-4731
cmlitfest.org

Art in the Park
Sept. 10, Blowing Rock
828-295-7851
blowingrock.com

Sculpture Celebration
Sept. 10, Lenoir
828-754-2486
caldwellarts.com

Humorist/Speaker Elliot Engel
Lecture on Jane Austen
Sept. 13, West Jefferson
336-846-2787
ashecountyarts.org

Literary Festival
Speakers, performances
Sept. 13–17, West Jefferson
336-846-2787
onthesamepagefestival.org

Mountain Heritage Festival
Possum Queen contest, music
Sept. 17, Sparta
336-372-5473
sparta-nc.com

Music Festival
Americana, folk, blues, rock, jazz
Sept. 17, Blowing Rock
828-295-7111
theblowingrock.com

Western Piedmont Symphony Orchestra
Sept. 23, West Jefferson
336-846-2787
ashecountyarts.org

Fall Classic
72-mile bike ride
Sept. 24, Blowing Rock
828-295-4636
blowingrock.com


Music Festival
Americana, folk, blues, rock, jazz
Sept. 17, Blowing Rock

Mountain Heritage Day
Shape-note singing, dancing
Sept. 24, Cullowhee
828-227-3193
mountainheritageday.com

Art on the Mountains
Bluegrass, oldtime music
Sept. 24, West Jefferson
336-846-2787
ashecountyarts.org

ONGOING

Sculpt Mettle: Redux!
Henry G. Michaux Retrospective
Through Oct. 1, Lenoir
828-754-2486
caldwellarts.com

Ghost Train Halloween Festival
Sept. 23–Oct. 29, Blowing Rock
877-893-3874
tweetsie.com

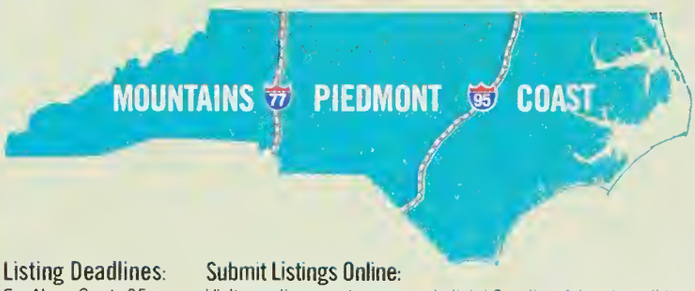
Piedmont

Rise of the Guardians
Children's movie
Sept. 2, Roxboro
336-597-1709
piedmontcc.edu/calendar

Nitro Circus Live
Motocross, BMX stunts
Sept. 3, Fayetteville
910-624-0579
fayettevillemotorspeedway.com

Carolina Compass Policy

- We list events in the magazine as space allows and may edit as needed. We list more events on carolinacountry.com in the Carolina Adventures section.
- All submissions must be made on carolinacountry.com in Carolina Adventures/Submit an Event. Deadlines are posted there, too. ***(No email or U.S. Mail.)***
- Public venue events only. *(No business-hosted events.)*
- Limit 3 events per venue per month in the magazine. More posted online.
- For accuracy, ongoing events must be submitted monthly.
- Public contact required: website, email or phone number.



Listing Deadlines:
For Nov.: Sept. 25
For Dec.: Oct. 25

Submit Listings Online:
Visit carolinacountry.com and click "Carolina Adventures" to add your event to the magazine and/or our website.



Festival of Yesteryear
A Celebration of Early America
Sept. 10, Fayetteville

The Kings & Queens of Hip Hop
Headliners: DMX, Bone Thugs-N-Harmony
Sept. 4, Fayetteville
910-438-4100
crowncomplexnc.com

Comedian Etta May
Sept. 10, Roxboro
336-597-1709
piedmontcc.edu/calendar

Pickin' by the Lake
Sept. 10, Roxboro
336–3222–2105
piedmontcc.edu/pickin

Tea with Potters
Sept. 10, Seagrove
336-879-4145
teawithseagrovepotters.webstarts.com

Street Festival
Inflatables, crafts, live music
Sept. 10, Denton
336-859-4231
townofdenton.com

Mad About Modern 2016
Mid-Century home tour
Sept. 10, Charlotte
704-568-1774
charlottemuseum.org

Historic Tours by Carriage
Sept. 10, Fayetteville
910-222-3382
visitdowntownfayetteville.com

Bluegrass Festival
Bible camp fundraiser
Sept. 10, Mocksville
336-262-6325
cbcbluegrass.com

Civil War Living History Day
Horse-drawn artillery battery
Sept. 10, Dunn
910-891-5019
averasboro.com

Festival of Yesteryear
A Celebration of Early America
Sept. 10, Fayetteville
910-486-1330
ncdcr.gov

Evening of Hope
Speaker Ashley Judd
Sept. 15, Raleigh
919-781-9255
walkforhope.com

Masters of Soul
Sept. 16, Rocky Mount
252-985-5197
ncwc.edu

Cabarrus Powwow
Dancing, drumming, crafts
Sept. 16–17, Kannapolis
980-777-8671
cabarruspowwow.webs.com

Apple Fest
Music, artisans, shows
Sept. 17, Winston Salem
336-924-8191

Bright Leaf Hoedown
Sept. 17, Yanceyville
336-694-6106
caswellchamber.com

Music Festival
Face painting, car show
Sept. 17, Creedmoor
919-764-1013
cityofcreedmoor.org

Fall Festival
Vendors, kids activities
Sept. 17, Lillington
910-893-3751
lillingtonchamber.org

Sweet Potato Festival
Storytelling, music
Sept. 17, Rockford
336-374-5317
rockfordgeneralstore.com

Renaissance Faire
Sept. 17–18, Fort Bragg
910-396-9126
bragg.armymwr.com

Master Gardener Plant Sale
Sept. 23–24, Winston Salem
336-682-6792
teresalowry65@gmail.com

World Hunger Day Yard Sale
Sept. 24, Huntersville
704-875-6581
www.fbc-h.org

Antique Power of Yesteryear Club
Tractor show, cake walk
Sept. 30–Oct. 1, Albemarle
704-982-7896
claylittle@ctc.net



Renaissance Faire
Sept. 17–18, Fort Bragg

Splash of Color Quilt Show
Door prizes, silent auction
Sept. 30–Oct. 1, Concord
704-787-2509
cabarrusquiltersguild.org

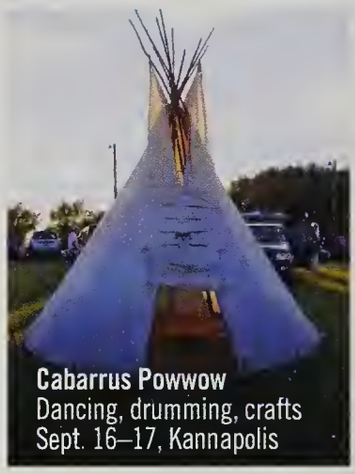
Harvest Show
Sept. 30–Oct. 2, Butner
919-528-1652
lgaha.com

ONGOING

Million Dollar Quartet
Rock 'n' Roll musical
Sept. 9–Oct. 2, Fayetteville
910-323-4234
cfrt.org

Steel Magnolias
Comedy-drama
Sept. 23–Oct. 9, Fayetteville
910-678-7186
gilberttheater.com

Go Figure!
Featured artists show works
Sept. 26–Oct. 23, Hillsborough
919-732-5001
hillsboroughgallery.com



Cabarrus Powwow
Dancing, drumming, crafts
Sept. 16–17, Kannapolis

Coast

Uptown First Friday Artwalk
Sept. 2, Greenville
252-561-8400
uptowngreenville.com

ZoSo, The Ultimate Led Zeppelin Experience
Sept. 3, Manteo
252-475-1500
roanokeisland.com

Country Stores of North Carolina
Photography exhibit
Sept. 4, Oriental
museum@dockline.net



There are more than 250 farmers markets in North Carolina. For one near you, visit **ncfarmfresh.com/farmmarkets.asp**


Wooden Boat Show
Sept. 24, Southport

Shanghai Acrobats
Peoples Republic of China
Sept. 5, Pembroke
910-521-6361
uncp.edu/gpac

Collard Festival
Sept. 8–11, Ayden
252-746-2266
aydencollardfestival.com

Freeboot Friday
Sept. 9, Greenville
252-561-8400
uptowngreenville.com

Did Your Mother Come from Ireland
Poetry, songs, photography
Sept. 9–10, Oriental
703-304-0668
oldtheater.org

Monster Truck Show
Sept. 9–11, Newport
252-223-4019
newportfleamall.com

Classic Car Show
Sept. 10, Scotland Neck
252-826-3152
townofscotlandneck.com

Mike Farris & Roseland Rhythm Revue
Sept. 16, Oriental
252-617-2125
pamlicomusic.org

Intercultural Festival
Sept. 17, Bolivia
910-842-6566
bcifestival.org

Harvest Festival
Sept. 17, Bethel
252-531-7027
bethelnc.org

Dublin Peanut Festival
Parade, entertainment, food
Sept. 17, Dublin
910-876-4884
dublinpeanutfestival.com

Agricultural Fair
Sept. 20–25, Greenville
252-758-6916
pittfair.org

Outer Banks Bluegrass Festival
Sept. 21–24, Manteo
252-423-3039
bluegrassisland.com

Branching out with Quilts Show
Sept. 23–24, Washington
252-947-0838
jhindsley@hotmail.com

KNOW BEFORE YOU GO

In case something changes after Carolina Country goes to press, check information from the contact listed.

Eastern Carolina Tractor Ride
Farm tour, gospel music, cancer fundraiser
Sep. 24, Mount Olive
919-658-4778
easterncarolinatractorride.com

Wooden Boat Show
Sept. 24, Southport
910-617-5223
southportwoodenboatshow.com

Paddle Fest
Sept. 24, Sunset Beach
888-573-2235
events.11alive.com

Bringing Nature Home
Speaker Doug Tallamy
Sept. 24, Southport
216-375-6511
capefearaudubon.org

Ballroom Dancing
Sept. 24, Greenville
252-717-1112
greenvillencusadance.org

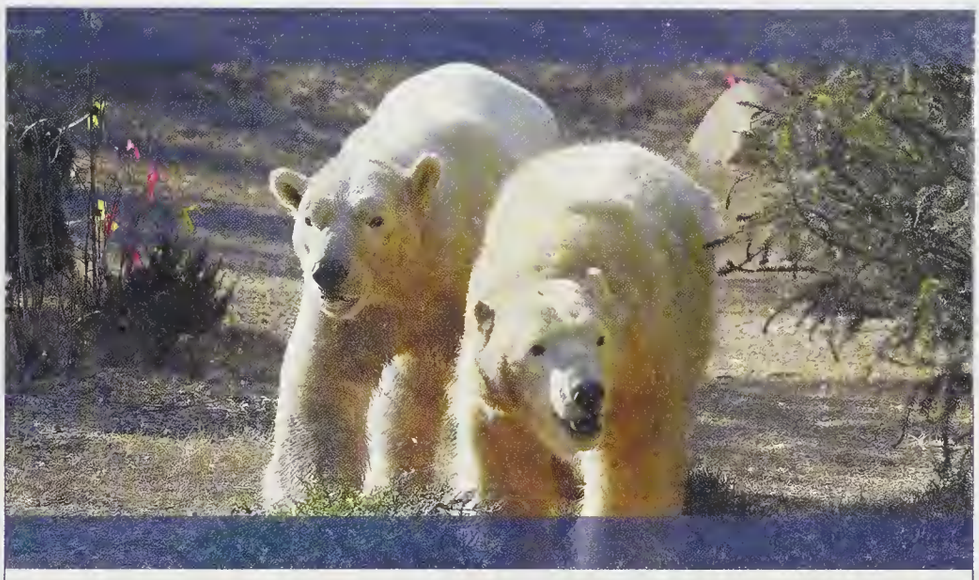
Chowan County Regional Fair
Sept. 27–Oct. 1, Edenton
252-482-4057
chowanfair.com

Unelectable You
Presented by Slate & The Second City
Sept. 29, Pembroke
910-521-6361
uncp.edu/gpac

Freeboot Friday
Sept. 30, Greenville
252-561-8400
uptowngreenville.com

ONGOING

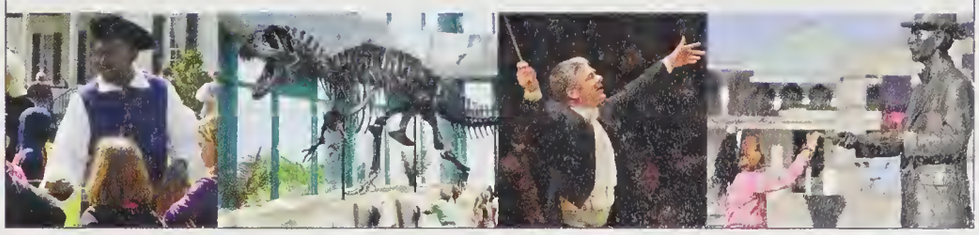
Medea
Greek tragedy
Sept. 29–30 & Oct. 1–4, Greenville
800-328-2787
ecu.edu



Experience All Of Our
North Carolina Treasures
Family Fun for Everyone

dncr.nc.gov

NC Natural and Cultural Resources



CAROLINA COUNTRY adventures

One State, Many Worlds

Folklife exhibition celebrates works of immigrant artists in N.C.

This September, the North Carolina Folklife Area at the National Folk Festival will celebrate artists from around the world who now make their home in the Tar Heel State.

"'One State, Many Worlds' is a rare and wonderful opportunity for visitors and residents to experience the diverse traditions from our immigrant communities together in one venue in Greensboro," Department of Natural and Cultural Resources secretary Susan Kluttz says.

The 76th annual National Folk Festival will feature more than 300 of the nation's finest musicians, dancers and craftspeople, including more than 40 performing groups on seven stages, a dance pavilion dedicated to nonstop participatory dancing, and a Family Stage with performances appealing to both the young and young at art.

At the N.C. Folklife Area, new North Carolinians from Africa, Syria and Turkey, among others, will share artwork, crafts, musical, culinary and cookery traditions. The lineup features stars of la musica latina, revered Southeast Asian and African artists, and many other musical masters. You can see fine cooks reveal the secrets of their favorite homeland dishes, watch crafts demonstrations, and try out games and sports from around the globe. This area will be divided into the following three experiences. Scheduled performances include:

Traditions Stage

Music and dance

- **Diali Cissokho & Kaira Ba, Griot and kora player**
 Senegal (Carrboro)
- **International Community Mass Choir, Gospel choir**
 Central and West Africa (Charlotte)
- **Awalom Gebremariam, Bahlawi music**
 Asmara, Eritrea (Durham)

On Sunday, this stage will open with music from Greensboro's Montagnard Community. Performers include:

- **Y'Brom Ayun, Traditional musician and basket maker**
 Buon Mui, Daklak Province, Vietnam (Greensboro)
- **Janarde, Traditional Montagnard dance**
 Central Highlands of Vietnam (Raleigh)

Cuisine and Cookery Area

Unique foodways

- **Margarita Delgado, Salvadoran cuisine**
 San Salvador, El Salvador (Greensboro)
- **Judelande Dumé, Traditional Haitian cuisine**
 Les Cayes, Haiti (Mount Olive)
- **Lanoy Thammavongxay, Lao cuisine**
 Savanhakhet, Laos (Morganton)

Masters and Makers Showcase

Old and modern arts and crafts

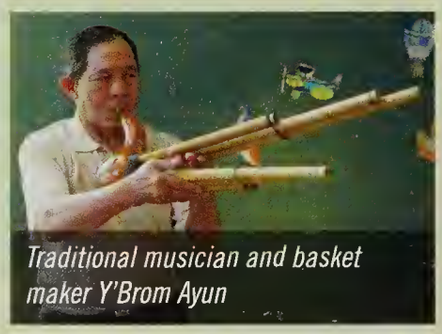
- **Marlene Makita, Hair braiding**
 Brazzaville, Republic of Congo (Greensboro)
- **Faustin Dumé, Self-taught painter**
 Les Cayes, Haiti (Mount Olive)
- **Ruben Olmos, Custom lowrider cars displayed**
 Second generation Mexican-American (Burlington)

In addition to the N.C. Folklife Area, themed festival areas include the Family Activities Area and North Carolina Arts Marketplace. The lineup of performers and artists was curated by the North Carolina Folklife Institute and North Carolina Arts Council. The N.C. Folklife Area is a project of the council, an agency of NCDNCR.

Information provided by NCDNCR



A Montagnard weaver



Traditional musician and basket maker Y'Brom Ayun

Photos courtesy of North Carolina Arts Council and North Carolina Folklife Institute

The 76th National FOLK FESTIVAL
greensboro, north carolina
SEPTEMBER 9-11, 2016

KNOW BEFORE YOU GO

Free admission. Address: Center City Park, 200 N. Elm St, Greensboro, N.C., 27401, and surrounding streets. Most attendees can easily walk to all activities and events. 336-373-7523 or NationalFolkFestival.com (where you can download a map that shows parking and shuttles)

WHERE IN CAROLINA COUNTRY IS THIS?

This is a Carolina Country scene in Touchstone Energy territory. If you know where it is, send your answer by Sept; 6 with your name, address and the name of your electric cooperative.

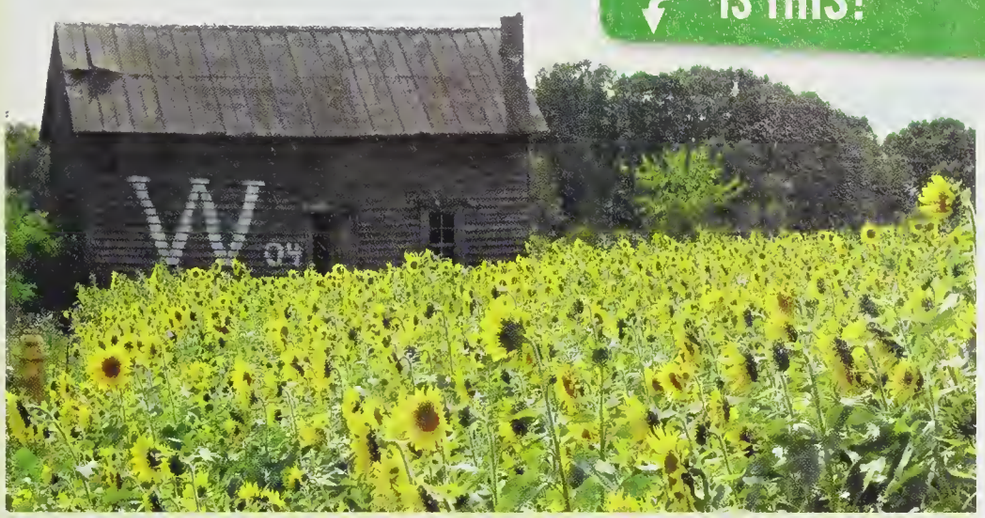
Online: carolinacountry.com/where

Or by mail: Where in Carolina Country?
P.O. Box 27306
Raleigh, NC 27611

Multiple entries from the same person will be disqualified.

The winner, chosen at random and announced in our October issue, will receive $25.

Have a roadside gem you'd like to share? Submit a photo, plus a brief description and general location information, at carolinacountry.com/where.





August winner

The August Where is This photo taken by Renee Gannon features two familiar icons, Scoop and Dip, who reside in the parking lot of the Calabash Creamery on Highway 179 in Calabash. More than 600 readers recognized the photo, so it seems Calabash is also known for this local homemade ice cream spot as well as its seafood restaurants. Many expressed delight in sitting in the rocking chairs on the creamery's front porch, enjoying "pure bliss" in a cone (the "sunset peach" mentioned quite often in the responses). The shop's wide variety of flavors and its player piano ranked high with readers, as did family photo ops with the cow and calf. The winning entry chosen at random from all the correct submissions came from Union Power Cooperative member Gary Layden of Mint Hill.

CAROLINA COUNTRY scenes
Photo of the month



Oak Island Fisherman

While taking a stroll along Oak Island's beach, I saw this man fishing. It was a picture-perfect opportunity I simply couldn't pass up.

Katherine Clark, Dublin

The Photo of the Month comes from those that scored an honorable mention from the judges in our 2016 photo contest ("Carolina Country Scenes," February 2016). See even more at the Photo of the Week on our website **carolinacountry.com**.

You can reach Charles Joyner by email: joyner@carolinacountry.com

UNSCRAMBLET

"Inflation ensures that a penny saved _ _ _ _ _ _ _ _ _ a cent."
c b r a l e a m l s

Use the capital letters in the code key below to fill in the blanks above.

H I N O R S T W means
s c r a m b l e



SECOND THOUGHT ON A FIRST LINE

WITH APOLOGY TO THOMAS HOOD

"I REMEMBER, I REMEMBER,
THE HOUSE WHERE I WAS BORN,"
BUT I'LL BE DARNED IF I RECALL
JUST WHAT I DID THIS MORN.

—CGJ

Did you know?

Many of _ _ _ _ _ _ _ _ '_ homes were
o s o l d v l e
built before the Civil War and are on the National Register of Historic Places.



Use the capital letters in the code key below to fill in the blanks above

D E N O S T means
s o l v e d

Word Play!

How many words can you come up with after WOR? Your words may be different from mine.

wor _
wor _ _
wor _ _ _
wor _ _ _ _
wor _ _ _ _ _
wor _ _ _ _ _ _
wor _ _ _ _ _ _

"A piece of mine came out in the Atlantic Monthly, a simple rustic tale about the death of a pig, and the *Ellsworth (Maine) American* attacked it as malicious. You can't even come out against constipation in America any more."

—Letters of E.B. White



For answers, please see page 41.

© 2016 Charles Joyner

ALL-NEW Bigger Buttons

No Contracts

"My friends all hate their cell phones... I love mine!" Here's why.

FREE Car Charger

*Say good-bye to everything you hate about cell phones. Say hello to the **ALL-NEW** Jitterbug Flip.*

"Cell phones have gotten so small, I can barely dial mine." Not the new Jitterbug® Flip. It features a larger keypad for easier dialing. It even has a larger display so you can actually see it.

"I had to get my son to program it." Your Jitterbug Flip set-up process is simple. We'll even program it with your favorite numbers.

"I tried my sister's cell phone... I couldn't hear it." The Jitterbug Flip is designed with a powerful speaker and is hearing aid compatible. Plus, there's an adjustable volume control.

"I don't need stock quotes, Internet sites or games on my phone. I just want to talk with my family and friends." Life is complicated enough... The Jitterbug Flip is simple.

"What if I don't remember a number?" Friendly, helpful Operators are available 24 hours a day and will even greet you by name when you call.

"My cell phone company wants to lock me in a two-year contract!" Not with the Jitterbug Flip. There are no contracts to sign and no penalty if you discontinue your service.



Available in Red and Graphite.

Monthly Plan	$14.99/mo	$19.99/mo
Monthly Minutes	200	600
Operator Assistance	24/7	24/7
Long Distance Calls	No add'l charge	No add'l charge
Voice Dial	FREE	FREE
Nationwide Coverage	YES	YES
Friendly Return Policy[1]	30 days	30 days

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By Pat Keegan and Amy Wheeless

Geothermal Heat Pumps

An energy-efficient system with long-term payoffs



A horizontal loop field can be less expensive than vertical drilling, but requires more space, as shown at this larger installation at an electric co-op.

In the South, heating and cooling account for a large percentage of home energy use. A geothermal heat pump, also known as a ground source heat pump, is among the most efficient types of heating and cooling systems to consider installing in your home.

Even when it is extremely hot or cold outside, the temperature a few feet below the ground's surface remains relatively moderate. A geothermal heat pump system uses this constant ground temperature to help heat and cool your home.

Geothermal heat pumps use up to 44 percent less energy than traditional air-source heat pumps, and up to 72 percent less energy than electric resistance heaters combined with standard air conditioners, according to the U.S. Environmental Protection Agency.

A geothermal heat pump system has three main components:

- A collector, or loop field, which is in the ground and cycles a liquid, like antifreeze, through dense plastic tubing;
- A heat pump in your home; and
- A duct system that distributes heated or cooled air throughout your home.

During the winter, the collector absorbs the stored ground heat and the liquid carries that heat to the heat pump, which concentrates it and blows it into the ductwork, warming your home. In the summer, the heat pump extracts heat from the home and transfers it to the cooler ground.

The collector that exchanges heating and cooling with the ground can be set up in one of three main ways:

Horizontal system: Plastic tubing is placed in trenches four to six feet below the ground's surface. This system works well when a home or business has sufficient available land, as these systems may require up to 400 feet of trenches.

Vertical system: A drill digs 100 to 400 feet below the surface and places the tubing. This system can be more costly, but will have less impact on any existing landscaping and can be used on smaller lots.

Pond system: If you have access to a pond or lake sufficiently wide and deep, a pond system (also known as a water-source heat pump) may be possible. The loop field is connected to the heat pump and then placed at least eight feet below the water's surface. This option can be the least expensive.

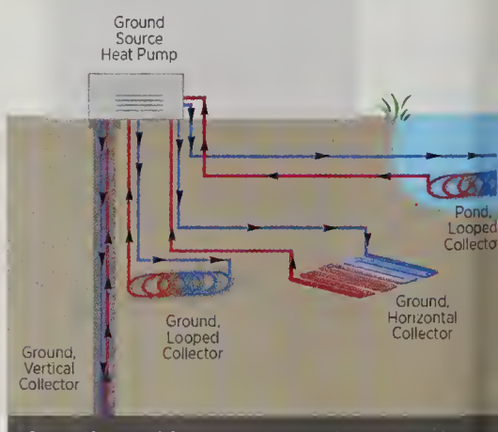
Geothermal systems typically cost more than other heating systems, largely because of the collector and the digging or drilling, but their high efficiency can reduce payback time. The cost will vary based on whether new ductwork is needed and the type of collector you install, among other factors.

The North Carolina Renewable Energy Tax Credit, which included geothermal systems, expired in 2015. Currently, no such state tax credit is in place. However, there is a 30 percent federal tax credit for installing an Energy Star-rated system before the end of 2016. So if your system and installation cost $20,000, you could take $6,000 off your federal tax bill. Check with your electric co-ops for other potential rebate or financing options.

For those with high heating and cooling bills who are in the position to make a long-term investment in their home, a geothermal system is a good option to consider. And those building new homes should consider at the outset whether to install a geothermal heat pump. With new construction, the system can be included in the mortgage.

Talk with a qualified energy auditor, who can help you evaluate your options.

This column was co-written by Pat Keegan and Amy Wheeless of Collaborative Efficiency. For more information on geothermal heat pumps, visit collaborativeefficiency.com/energytips.



A geothermal heat pump can have many different connections to the ground.

Source: Federated Rural Electric Association

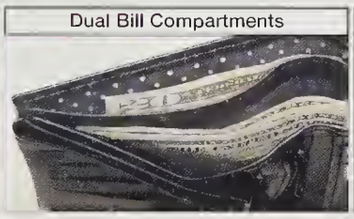
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By Hannah McKenzie

Staying Clean with Less Hot Water

Q: The July article provided suggestions about selecting a new water heater. But, what are the best low-cost or no-cost strategies for reducing hot water use?



A: Saving hot water is an opportunity for your entire family to be engaged in energy savings. Much of our hot water use can be decreased by installing simple products or changing our habits. This month, we will explore opportunities to save hot water with showers and clothes washers—two household appliances that use the most hot water.

Showers

My neighbor's teenage daughter washes her hair before school each day. To her father's surprise, she had been washing her hair with the bathtub faucet running non-stop and rapidly draining the water heater. After a quick trip to the hardware store, he installed a low-flow handheld shower wand. Now it is easier for his daughter to wash her hair, she uses substantially less hot water, and leaves the rest of the family with enough hot water for their morning routines.

Reliable low-flow showerheads can be found by looking for the WaterSense® label on product packaging. Since 1994, standard showerheads spray no more than 2.5 gallons of water per minute (gpm). WaterSense labeled products use at least 20 percent less water and perform equally or better than standard models. Many households have found that low-flow showerheads help reduce the dreaded no hot water shower experience. Check to see how much water your showerhead currently uses by looking for the gpm engraving or use a 5-gallon bucket to measure how much water comes out per minute.

Developing new habits can also help to reduce water use. What if we turned off the water while lathering? For anyone who has camped and taken a bucket shower, you know it can be done. For people who love gadgets, a toggle valve can be installed on the showerhead arm so the stream of water can easily be paused as you lather. Try it for a month to see if you can use radically less hot water. Or, perhaps create a lively household competition. Installing a low-flow showerhead and shortening your shower by a minute or two can save more than 3,600 gallons of water per year and $10 to $40 per year in energy costs.

Clothes Washers

Clothes washers can be hot water hogs—especially when we are not diligent about using cold water and washing only full loads. Energy Star-certified clothes washers are an excellent way to cut back on water use. A full size, Energy Star-certified clothes washer uses 13 gallons of water per load compared to the 23 gallons used by a standard washer—while still producing equally clean clothes as their less efficient counterparts.

When using any clothes washer, wash clothing with cold water and bedding with warm water rather than hot water. Always rinse in cold water.



Next month, we will explore ways to lower hot water energy costs by making changes to the pipes that connect the water heater to appliances and fixtures.

For more information, visit:

WaterSense:
bit.ly/CCWaterSense or call (866) WTR-SENS (987-7367)

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Hannah McKenzie is a residential building science consultant for Advanced Energy in Raleigh.

Advertisement

Hydrogen Peroxide is like a Drugstore in a Bottle

(SPECIAL) - Hydrogen peroxide is trusted by every hospital and emergency room in the country for its remarkable ability to kill deadly germs like E. coli and the swine flu virus. In fact, it has attracted so much interest from doctors that over 6000 articles about it have appeared in scientific publications around the world.

Research has discovered that hydrogen peroxide enables your immune system to function properly and fight infection and disease. Doctors have found it can shrink tumors and treat **allergies, Alzheimer's, asthma, clogged arteries, diabetes, digestive problems, migraine headaches, and arthritis pain**.

Smart consumers nationwide are also discovering there are hundreds of health cures and home remedy uses for hydrogen peroxide. A new book called *The Magic of Hydrogen Peroxide* is now available that tells you exactly how to use hydrogen peroxide by itself... and mixed with simple everyday kitchen items... to make liniments, rubs, lotions, soaks and tonics that treat a wide variety of ailments.

It contains tested and proven health cures that do everything from relieving **chronic pain** to making **age spots** go away. You'll be amazed to see how a little hydrogen peroxide mixed with a pinch of this or that from your cupboard can:

- **Relieve the pain of arthritis, rheumatism and fibromyalgia**
- **Treat athlete's foot**
- **Clear up allergies and sinus problems**
- **Soothe sore throats**
- **Fight colds and flu**
- **Help heal boils and skin infections**
- **Whiten teeth without spending a fortune**
- **Destroy harmful dental bacteria and heal gingivitis**
- **Help heal cold sores and canker sores**
- **Clear up foot and nail fungus**
- **Relieve the sting and pain of insect bites**
- **Soothe sore feet**
- **Relieve ear aches**
- **Soothe muscle aches**
- **Enable minor wounds, cuts and scrapes to heal faster**
- **Refresh and tone your skin**
- **Clear up acne, rashes and age spots**
- **Help heal yeast infections**
- **And much more**

Besides killing E. coli and the swine flu virus, hydrogen peroxide also destroys botulism, salmonella and other harmful organisms. It works by making viruses and bacteria self-destruct on the cellular level. Amazingly, for something so powerful, hydrogen peroxide is safe. That's because after it makes germs self-destruct, hydrogen peroxide breaks down into harmless water.

The Magic of Hydrogen Peroxide book is a valuable health improvement treasure that also shows you how to make tons of household cleaners that work better and more economically than expensive store-bought products. It's a safe powerful alternative to harsh chemical cleaners. Discover easy-to-make formulas that:

- **Kill germs on kitchen counters and surfaces**
- **Sterilize dishes, cups and kitchen utensils**
- **Make a powerful scouring powder that works wonders on kitchen sinks, refrigerators and ovens**
- **Disinfect and deodorize coffee makers, tea pots, blenders and food processors**
- **Sanitize wood cutting boards and wooden spoons**
- **Clean out and disinfect clogged drains**
- **Make hardwood floors, tile floors, grout and linoleum gleam**
- **Get rid of harmful bacteria on fruits, vegetables and meats with this safe and effective food rinse**
- **Eliminate nastiness from toilet bowls, bath tubs, showers and shower curtains**
- **Sterilize and purify toothbrushes and dentures**
- **Clean and disinfect pet stains**
- **Remove mold and mildew from basement walls, roofs and other surfaces**
- **Disinfect diapers, pacifiers and baby toys**
- **Remove wine, ink and blood stains from clothing, carpets and furniture**
- **Boost laundry detergent power and restore brightness and color to fabrics**
- **Streak-free-clean your windows and mirrors**
- **Clean and deodorize your car**
- **Eliminate skunk stench on pets and foul odors from litter boxes, old tennis shoes, etc.**
- **Rid pets of parasites and bacteria**
- **Make indoor and outdoor plants flourish with a surefire fertilizer and insecticide all rolled-into-one**
- **Keep hands germ-free without expensive hand sanitizers**
- **And much more**

The Magic of Hydrogen Peroxide contains many more amazing health remedies, cleaning formulas and gardening mixtures. In addition, it also gives you a list of qualified physicians who use hydrogen peroxide in their practices to treat serious ailments. Also included FREE with each book are useful tips and home remedy formulas using vinegar, garlic baking soda and teas.

To get your copy of *The Magic of Hydrogen Peroxide* direct from the publisher at the special introductory price of $12.95 plus $3.98 shipping and handling (total of $16.93, OH residents please add 6.5% sales tax) simply do this:

Write "Hydrogen Peroxide" on a piece of paper and mail it along with your check or money order payable to: James Direct, Inc., Dept HP767, 500 S. Prospect Ave., Box 980, Hartville, Ohio 44632.

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LETTERS

Hydrogen Peroxide Knocks Out the Toughest Cases of Athlete's Foot

When I read, treat athlete's foot, I had to try it. I have been fighting with this for four months. I tried every kind of salve from the drug store with no luck. But when I put hydrogen peroxide on my feet it has started to go away. So now I need two books on hydrogen peroxide. One for my best friend. They are like having a doctor in your home.

- M. R.
Sun Prairie, WI

NEWS & RESEARCH

Hydrogen Peroxide: the First Responder of the Immune System

New research conducted at Harvard Medical School and University of Wisconsin – Madison has offered exciting clues as to how our bodies fight off infection and disease. It's been common knowledge in medical circles that our bodies produce hydrogen peroxide, but new studies of human and animal cells are shedding new light on the critical role hydrogen peroxide plays in immunity, wound healing and even tumor biology. This new data shows that hydrogen peroxide is the catalyst to the body's effective fight against disease and infection.

This is one more brick in the wall of evidence supporting hydrogen peroxide's safety and power. Readers are urged to pick up The Magic of Hydrogen Peroxide without delay to begin harnessing the power and saving money without delay.

To get this valuable book direct from the publisher a special introductory price of $12.95 has been arranged plus $3.98 shipping and handling (total of $16.93, OH residents please add 6.5% sales tax) and write "Hydrogen Peroxide" and mail it with a check or money order payable to: James Direct, Inc., Dept HP767, 500 S. Prospect Ave., Box 980, Hartville, Ohio 44632.

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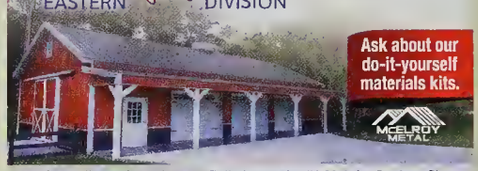


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Carolina Country Photo Contest

Great Gardens

Your Backyard Pride & Joy

We're on the hunt for the best gardens our readers have to offer. Send us a photo of the garden you're most proud of—vegetable, flower, herb (whatever you're growing!)—and the story that goes with it. We will pay $50 for each one that is published in our March 2017 Gardening Guide.







Rules

- Deadline: October 15, 2016
- One entry per household
- Digital photos should be a minimum of 1200 by 1800 pixels, prints a minimum of 4 x 6 inches.
- Supporting text should not exceed 200 words.
- Include your name, electric co-op, mailing address and email address or phone number with your entry.
- If you would like us to return your photo print, include a self-addressed, stamped envelope. (We will not return others.)
- We retain reprint rights.

Send to

Online: carolinacountry.com/mygarden
No emails, please.

Mail: Carolina Country Garden Contest
3400 Sumner Blvd., Raleigh, NC 27616



Grilled Apple Salad

- 1 cup pecan halves (toasted)
- 4 Gala apples
- 1 (6 ounce) package baby spinach
- 1 (5 ounce) package spring mix
- 3 ounces extra-sharp white cheddar cheese (shaved)
- Salt and pepper to taste

Vinaigrette

- ⅔ cup canola oil
- ⅓ cup Apple cider vinegar
- 2 green onions, minced
- 3 tablespoons light brown sugar
- 3 tablespoons fresh basil, chopped
- 1 tablespoon Dijon mustard
- ½ teaspoon dried crushed red pepper
- ¼ teaspoon salt

Coat the grill with olive oil or cooking spray.

Preheat the grill to a medium-high heat. Cut the apples crosswise into ¼-inch thick rings. Grill apple rings, covered with grill lid, 2–3 minutes on each side or until crisp-tender. Arrange the spinach, mixed greens on a plate and top with apples, cheese and toasted pecans. Season with salt and pepper. For vinaigrette dressing, whisk all ingredients until blended.



Bang Bang Oysters

- 1 pint oysters
- Vegetable oil for frying
- 2 large eggs
- ¾ cup all-purpose flour
- ½ cup cornstarch
- Salt and pepper
- Shredded lettuce
- Scallions (thinly sliced for garnish)

Sauce

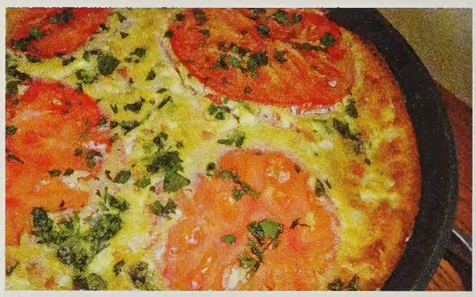
- ½ cup mayonnaise
- 1 tablespoon plus 1 teaspoon Asian Chili sauce such as Sriracha
- ¼ teaspoon salt
- 2 teaspoons honey

To make the sauce — combine the mayonnaise, chili sauce, honey, salt and 1 tablespoon of water in a large bowl; set aside.

Heat about 2 inches of vegetable oil in a heavy-bottomed pot or Dutch oven over medium heat until a deep-fry thermometer registers 350 degrees. Meanwhile, whisk the eggs in a shallow bowl. Whisk the flour, cornstarch and 1 teaspoon each salt and pepper in another shallow bowl.

Working in batches, dredge the oysters in the flour mixture, shaking off any excess, and dip in the beaten eggs, then return to the flour mixture, turning to form a thick crust. Fry the oysters in the hot oil until lightly golden, 1 to 2 minutes, adjusting the heat as needed to maintain the oil temperature. Transfer to a paper-lined plate with a slotted spoon.

Toss the oysters with the prepared sauce. Arrange on a bed of shredded lettuce and garnish with scallions.



Tater Mater Frittata

- ½ bag tater tots, thawed
- 6 eggs
- 1 tablespoon oil
- 1 small onion chopped
- ¼ cup pepper chopped
- 1 can (10 ounce) Ro-Tel tomatoes and chilies, original
- ¾ cup shredded Mexican blend cheese
- ¼ teaspoon cumin
- ½ pickled jalapeno pepper, finely chopped
- ½ cup cream
- ½ cup green chilies, chopped
- Salt and pepper
- 1 tablespoon cilantro or parsley, chopped
- 1 large tomato, thinly sliced

Potato crust

Thaw tater tots and heat waffle iron. Spread tater tots to completely cover waffle iron. Close lid and cook for 5 minutes until crust is crispy and brown. Set aside.

Frittata

Sauté onion and pepper in oil just until soft. Beat the eggs vigorously and add the sautéed vegetables, Ro-Tel tomatoes and chilies, cheese, cumin, jalapeno pepper and cream. Salt and pepper to taste.

Place potato crust in frying pan and pour egg mixture over crust. Arrange slices of tomato evenly on top of frittata and sprinkle with chopped cilantro or parsley.

Cook 2 minutes on stovetop on medium heat until edges are set.

Transfer skillet to oven and bake at 375 degrees for 20–25 minutes or until a knife inserted into the center comes out clean.

Let cool before serving.

From Your Kitchen

Black-Eyed Pea Artichoke Dip

- 1 medium onion, chopped and simmered in 2 tablespoons butter until soft
- 1 can black-eyed peas, drained and rinsed
- 1 can artichoke hearts, drained and chopped
- 2 tablespoons Parmesan cheese
- 1 cup sour cream
- 1 cup mayonnaise (Dukes)
- 1 envelope Buttermilk Ranch dressing (original)

Mix and put in a one quart or 1½ quart baking dish that has been sprayed with non-stick cooking spray. Cover with 1–1½ cups grated mozzarella cheese.

Bake at 350 degrees for 30 minutes. Allow to cool 10 minutes before serving. Serve with corn chips.

Recipe courtesy of
Cameron Reittinger of Wrightsville Beach

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Three recipes here are from WRAL-TV's "Local Dish," a weekly segment featuring Lisa Prince from the N.C. Department of Agriculture and Consumer Services, and WRAL's Brian Shrader. Each recipe showcases local ingredients grown, raised, caught or made in North Carolina. Find additional recipes online at www.GotToBeNC.com.

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